Case 5970

NOMENCLATURE	PART NUMBER	QUANTITY	NSN
Belt	7.0389.6528.0	1	3030-01-390-3885
Switch, TOGGLE	7.9820.0134.0	1	5930-01-361-7820
Washer, flat	7.0329.4640.0	5	5310-01-361-7814
Roller assembly	8.8185.6580.1	2	6525-01-361-8541
Switch, reed	8.9462.2710.0	1	5930-01-361-7823
Circuit card assembl	8.9462.2510.1	1	5999-01-361-7856
Electronic component	8.9462.4546.0	1	5999-01-361-7855
Valve, globe (red)	8.9432.1070.4	1	4820-01-361-7817
Valve, globe (blue)	8.9432.1110.4	1	4820-01-361-7818
Valve, white Globe White	8.9432.1090.0	1	4820-01-361-7819
Leveler, foot, proce	8.9432.1080.2	2	6525-01-361-8542
Pump unit, reciproca	8.8370.2615.0	1	4320-01-361-7827
Switch assembly	8.8966.0067.1	1	5930-01-361-7866
Switch, box	9.8148.6611.0	6	5930-01-361-7822
Pin, straight, head	6.0200.4390.0	5	5315-01-361-7830
Pin	6.0200.4490.0	2	5315-01-390-3698
Belt, round	7.0389.6536.0	1	3030-01-361-7836
Fuse, cartridge (1.6	7.0451.9608.0	1	5920-01-361-7810
Fuse, cart. (400ma	7.0451.9630.0	1	5920-01-361-7811
Fuse, cart. (6.25a	7.0451.9705.0	2	5920-01-361-7808
Keeper, slide	7.8185.6023.1	4	5340-01-361-7837
Gear, worm	7.8187.6655.1	2	3020-01-361-7844
Gear, worm	7.8187.6863.0	2	3020-01-361-7845
Ring, retaining	7.9402.1129.0	2	5365-01-361-7868
Fastener, snap	7.9432.2022.0	5	5325-01-361-7824
Gear, spur	7.9432.2025.0	2	3020-01-361-7843
Spring, roller, proc	7.9432.2109.1	2	6525-01-362-8621
Gear roller	7.9432.2115.0	2	3020-01-362-5336
Gear, spur	7.9432.2116.0	2	3020-01-363-7719
Gear, worm	7.9432.2854.1	1	3020-01-361-7846
Keeper, slide	7.9432.3025.0	5	5340-01-361-7840
Gear, spur	7.9462.1027.0	2	3020-01-361-7842
Gear, worm	7.9462.1214.0	1	3020-01-361-7847
Ball bearing annular	7.9462.1252.0	5	3110-01-361-7815
Bearing	7.9462.1253.0	5	
Gear, dryer	7.9462.1354.1	2	3020-01-361-7849
Heating element	7.9462.4315.0	1	4540-01-361-7813

NOMENCLATURE	PART NUMBER	QUANTITY	NSN
Belt	7.0389.6528.0	1	
Switch	7.9820.0134.0	1	
Washer, flat	7.0329.4640.0	5	5310-01-361-7814
Roller assembly	8.8185.6580.1	2	6525-01-361-8541
Switch, reed	8.9462.2710.0	1	5930-01-361-7823
Circuit card assembl	8.9462.2510.1	1	5999-01-361-7856
Electronic component	8.9462.4546.0	1	5999-01-361-7855
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Valve, globe (blue)	8.9432.1110.4	1	4820-01-361-7818
Valve, white	8.9432.1090.0	1	
Leveler, foot, proce	8.9432.1080.2	2	6525-01-361-8542
Pump unit, reciproca	8.8370.2615.0	1	4320-01-361-7827
Switch assembly	8.8966.0067.1	1	5930-01-361-7866
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Pin, straight, head	6.0200.4390.0	5	5315-01-361-7830
Pin	6.0200.4490.0	2	
Belt, round	7.0389.6536.0	1	3030-01-361-7836
Fuse, cartridge (1.6	7.0451.9608.0	1	5920-01-361-7810
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Fastener, snap	7.9432.2022.0	5	5325-01-361-7824
Gear, spur	7.9432.2025.0	2	3020-01-361-7843
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Gear roller	7.9432.2115.0	2	3020-01-362-5336
Gear, spur	7.9432.2116.0	2	3020-01-363-7719
Gear, worm	7.9432.2954.1	1	3020-01-361-7846
Keeper, slide	7.9432.3025.0	5	5340-01-361-7840
Gear, spur	7.9462.1027.0	2	3020-01-361-7842
Gear, worm	7.9462.1214.0	1	3020-01-361-7847
Ball bearing annular	7.9462.1252.0	5	3110-01-361-7815
Bearing	7.9462.1253.0	5	
Gear, dryer	7.9462.1354.1	2	3020-01-361-7849
Heating element	7.9462.4315.0	1	4540-01-361-7813

OPERATOR'S INSTALLATION AND INSTRUCTION MANUAL

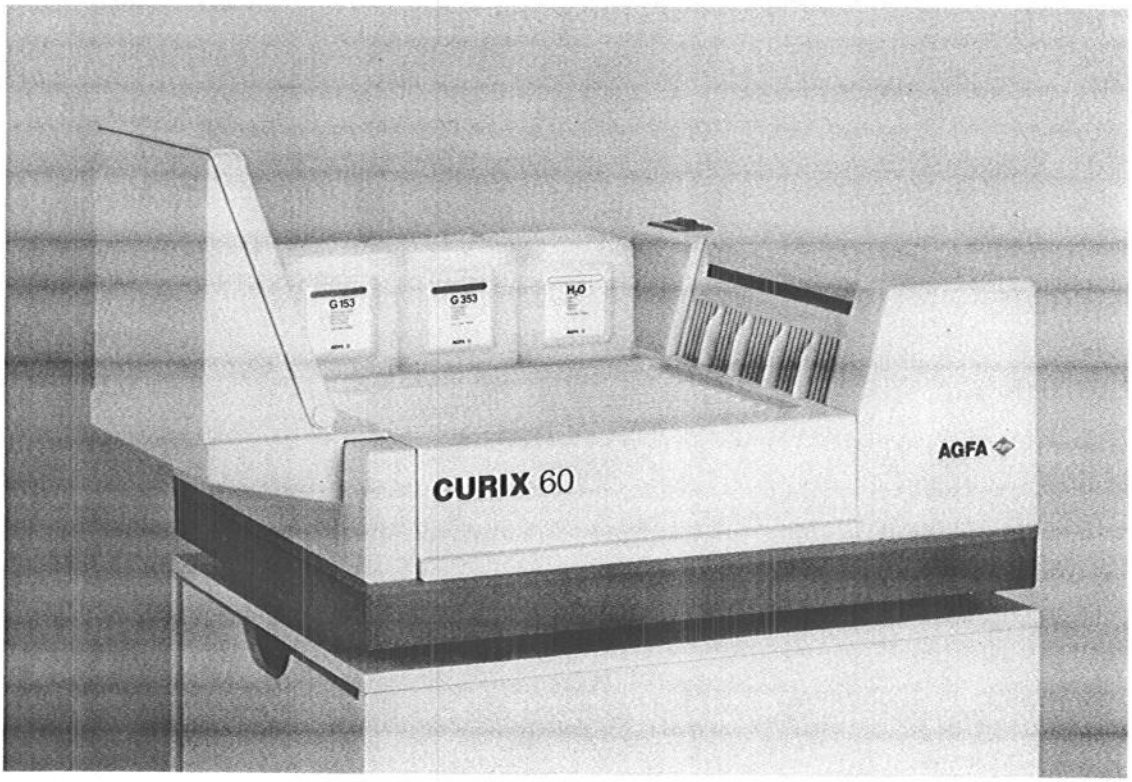

IMAGE & VISION

AGFA

Scope & Purpose of this manual

Scope

This Manual provides step-by-step instructions for unpacking, set-up, and operations of the CURIX® 60 Processor. Routine cleaning and maintenance instructions, and an illustrated parts list are also included.

Purpose

This Manual is intended to provide an overview of the installation, operation and maintenance of the CURIX 60 Processor with a minimum of technical assistance. However, if the processor is installed by a dealer, the customer may skip SECTION 1. and proceed to SECTION 2. – Getting Started.

Getting Assistance

If you encounter difficulty with the installation or operating instructions, or if the processor fails to operate as specified, contact your Agfa dealer or AGFA CORPORATION, Agfa Matrix Division. See Appendix C, for instructions on "How to get help when you need it."

The Manual consists of the following Sections:

SECTION 1. – Unpacking and Installation Procedures

SECTION 2. – Getting Started

SECTION 3. – Cleaning the CURIX 60 Processor

SECTION 4. – Troubleshooting

SECTION 5. – Maintenance Procedures

Appendix A. – Exploded Views of Processor

Appendix B. – Parts List

Appendix C. – How To Get Help When You Need It

Appendix D. – Equipment Specifications

Reader's Comment Form

Warranty Card

The information provided in this Manual is subject to change. Such changes will be incorporated in new editions of this publication.

This publication could inadvertently contain technical inaccuracies or typographical errors. If you wish to comment on this publication, please use the Postage-Free Reader Comment Form located after the Appendixes, or address your comments to:

AGFA CORPORATION, Agfa Matrix Division
100 Challenger Road, Ridgefield Park, NJ 07660
ATT: Product Manager, Special Products Group

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Introduction

The CURIX 60 Tabletop Processor incorporates many of the technological features of high-capacity Agfa Film Processors. It is manufactured to the highest standards of quality and reliability.

It features:

- ❑ Easy installation – just plug it in
- ❑ Low operating cost – economical stand-by mode
- ❑ Rapid start-up time – only 7 minutes
- ❑ Precise control of temperature and chemistry replenishment
- ❑ High-efficiency modular infrared dryer for rapid drying with a minimum of excess heat – no venting is needed
- ❑ Simplified, rackless film transport system with chemical resistant rollers
- ❑ Handles film from 4" x 4" up to 14" wide and 36" long
- ❑ Processing time, dry-to-dry in only 3 minutes

CAUTION: Before you unpack the processor please read SECTION 1 carefully.

6

SECTION 1 Unpacking and Installation Procedure

1.1 Working Area Requirements

NOTE: *Before unpacking the processor, make sure you have a darkroom which has an adequate working area and meets the basic installation requirements.*

The CURIX 60 Processor is designed to be installed in a darkroom.

The counter or support upon which the processor is to be set up must have a minimum working surface of 26" x 26" (the centers of the leveling feet are approximately 23" apart.) **A larger working surface is recommended for safety purposes.** If needed, a suitable Counter Top Extension (Cat. No. F8AM4440) or Processor Stand (Cat. No. FZ3H2003) are available as accessories from Agfa Corporation.

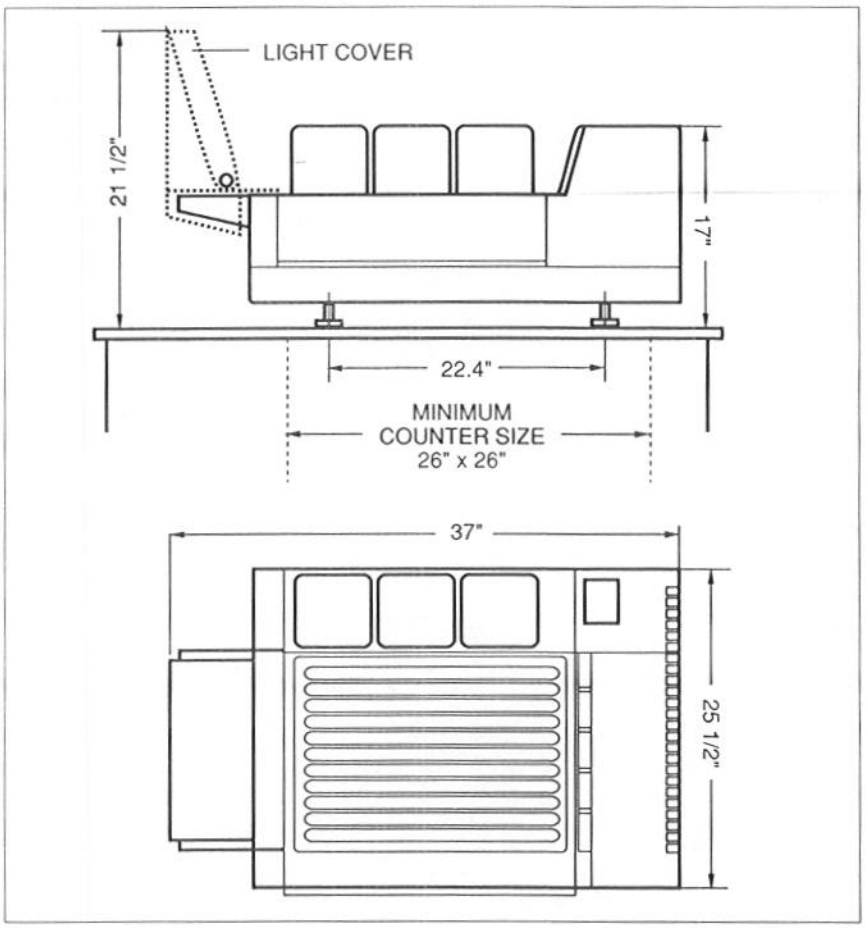


Figure 1. Dimension Drawing for Processor Installation

The processor should be accessible from all sides if possible, but certain minimum clearance **must** be provided for use. As follows:

- ❑ **Full access from front of processor**
- ❑ **Minimum clearance rear, left and right side:** 1"
- ❑ **Minimum clearance above counter top:** 28"

1.2 Basic Installation Requirements

Complete specifications for the CURIX 60 Processor are provided in APPENDIX D. The following are the basic requirements for installation:

Power Requirement: 120 VAC, 60 Hz, 1100 W max. Grounded, 15 Amp outlet is required.

Water Requirement: The CURIX 60 Processor does not need a separate water connection. Water is supplied by a water replenisher bottle. Water should be at normal room temperature (59° to 77° F.) However, a convenient sink and water hose is recommended for filling the water replenisher bottle, mixing the chemicals and cleaning the processor.

Disposal of Waste Chemistry and Waste Water:

WARNING: It is the purchaser's responsibility to conform to local codes regarding the disposal of waste chemistry. Care should be taken when handling chemistry at all times. Please observe the hazard instructions provided on the chemistry labels. Material Safety Data Sheets are available from Agfa Corporation.

Ventilation Requirement: The Infrared Dryer in the CURIX 60 Processor does not require a separate exhaust system and does not produce excessive external heat. Therefore, the only darkroom ventilation required is for normal operator comfort for short periods.

The processor will operate properly at a room temperature between 59° F and 86° F, and a relative humidity between 25% and 80%.

Darkroom Lighting Requirement: Consult the medical imaging film package for recommended darkroom lighting conditions.

After exposed film is inserted into the processor and the Light-tight Cover is closed, the darkroom door may be opened.

1.3 Unpacking the CURIX 60 Processor

By following the preliminary unpacking instructions you have removed the plastic wrapper, lifted the large carton cover from the pallet, and opened the small inner carton to obtain this manual.

You have also verified that you have received the following standard items:

CURIX 60 Processor
Six replenisher bottles
Three bottle valves
Three caps for replenisher bottles
Adapter hose accessory (drain)
Light-tight Cover Accessory

And, if ordered, the following optional accessories:

Waste bottles
Agfa Developer and Fixer concentrate solutions
Specific type, size, and quantity of Agfa Film

Remove Polyfoam Protective Packing
The processor is protected by large rigid polyfoam supports, and a number of polyfoam sheets.

Remove the polyfoam sheets and slide out the rigid polyfoam supports as shown in Figure 2.

Lift Processor onto Work Surface
The processor may now be lifted and placed in position on the work surface as shown in Figure 3.

CAUTION: It is recommended that two people lift the processor since it weighs approximately 120 lb. Do not remove the tape holding the processor Receiving Tray/Cover at this time.

The pallet & packaging components may now be discarded.

Disengage the Drain Hoses
Lift the processor and set it down on its rear end to gain access to the three Drain Hoses. **Do not use the legs as a pivot point.** The Drain Hoses are held in place by two rubber bands. Carefully remove the rubber bands and withdraw the Drain Hoses as shown in Figure 4.

NOTE: *The order of the three Drain Hoses from left to right are: Developer (red), Fixer (blue), and Water (white). If they are not color coded, place a mark on each Drain Hose for identification. Then, lower the processor to operating position.*

Unpack the (optional) Waste Bottles
If you have ordered the optional Waste Bottles, remove them from their cartons and place near the processor.

Arrange the Hoses
Arrange the Drain Hoses as shown in Figure 5. Developer and Waste-Water Hoses are inserted into one Waste Bottle. The Fixer Hose should be inserted into the second Waste Bottle. Optionally, three separate Waste Bottles may be used.

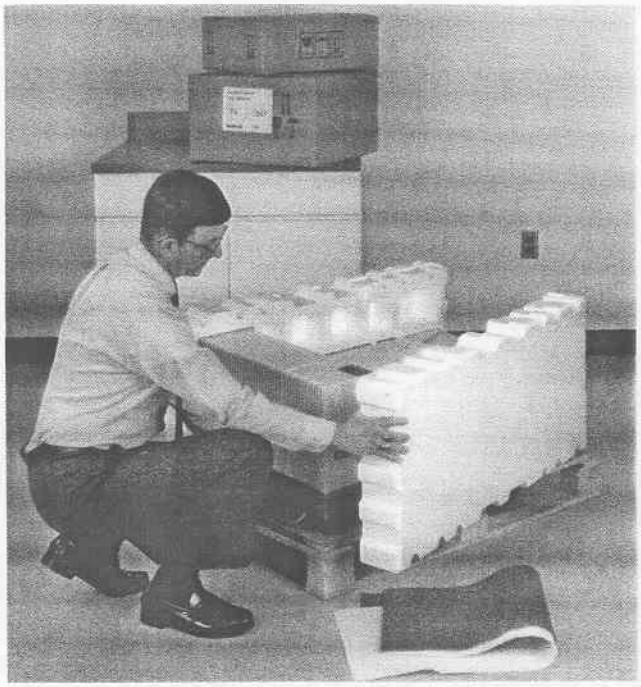


Figure 2. Remove Polyfoam Protective Packing

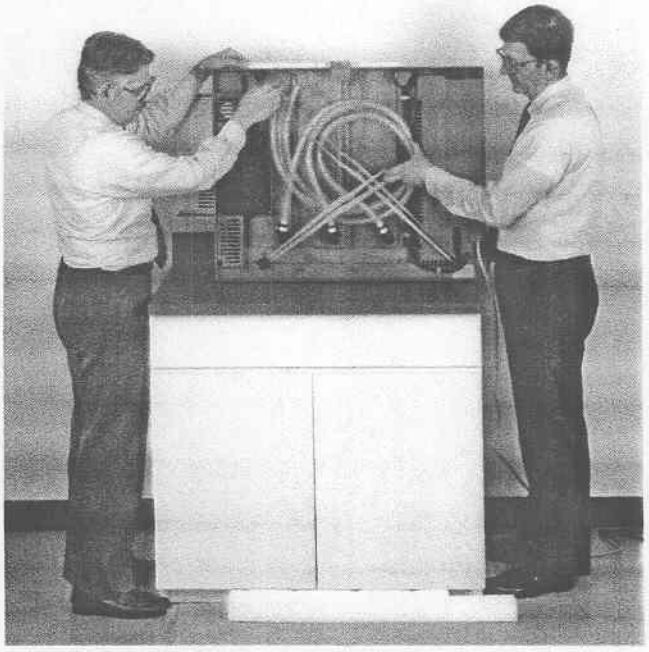


Figure 4. Disengage Drain Hoses

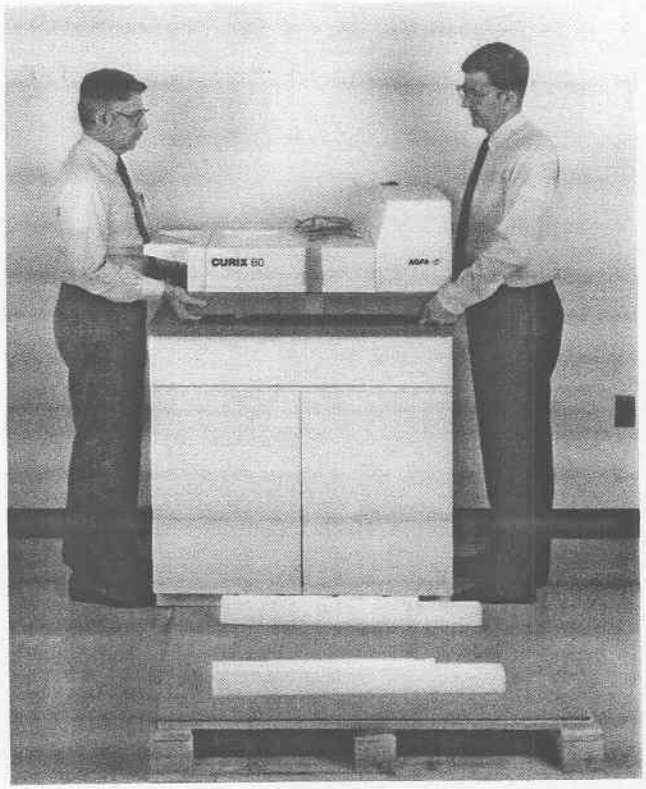


Figure 3. Lift Processor onto Work Surface

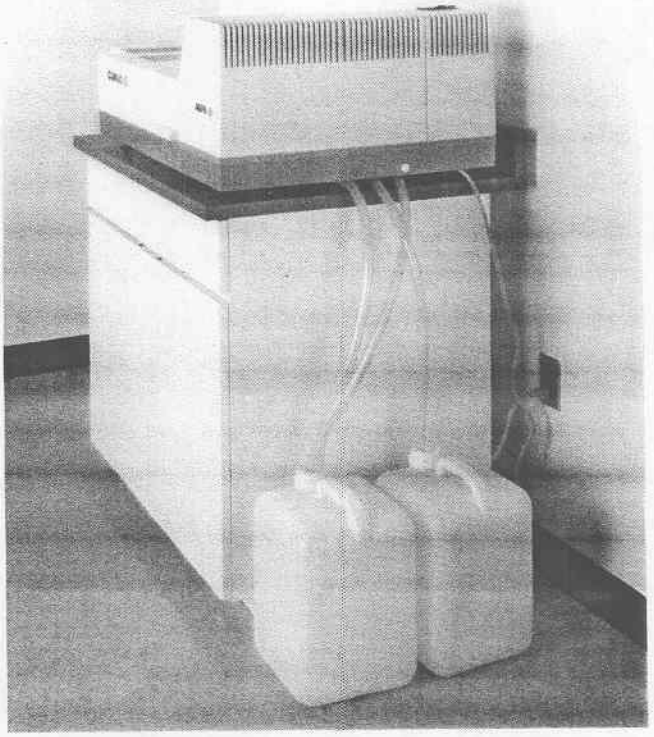


Figure 5. Arrangement of Hoses

CAUTION: In order to prevent back-up of used chemicals, the Drain Hoses must be installed without dips as shown in Figure 6. Hose ends should not be submerged. Hose length should be cut to provide approximately 1 inch of space between its end and the highest level of waste solution.

If the processor is to be installed on a counter with the Waste Bottles stored beneath, holes should be cut into the counter top and the Drain Hoses passed through to the Waste Bottles.

If the processor is to mounted on the CURIX Processor Stand, an opening is already provided for the Drain Hoses.

NOTE: *The processor is delivered with Elbow Unions attached to the Drain Hoses to permit them to pass underneath the processor for draining from any of the four sides.*

If necessary, open the Hose Clamps to reposition the Elbow Unions. Afterwards, carefully retighten the Hose Clamps. See Figure 6.

To straighten the Drain Hoses the rubber Elbow Unions must be replaced with straight sections. A length of Adapter Hose is provided for this purpose. See Figure 7 for instruction on making this simple change.

To Change to Straight Hose Sections

1. Loosen Drain Hose clamps "A" and "B".
2. Remove Elbow Union "C" and Reducer "D".
3. Cut Adapter Hose "E" into three equal lengths.
4. Attach in place of Elbow Unions and reclamp.

Removal of Covers and Removal of Polyfoam Sheets

Remove tape that is securing the Receiving Tray/Cover. See Figure 3. Lift off the Receiving Tray/Cover first, and then, the Dryer Section Cover as shown in Figure 8. The Dryer Section Cover lifts straight up. Lift the covers from the Developer, Fixer, and Wash-Water Tanks and remove the polyfoam sheet as shown in Figure 9. Also, remove the small rectangular polyfoam cushion next to the Wash-Water Tank.

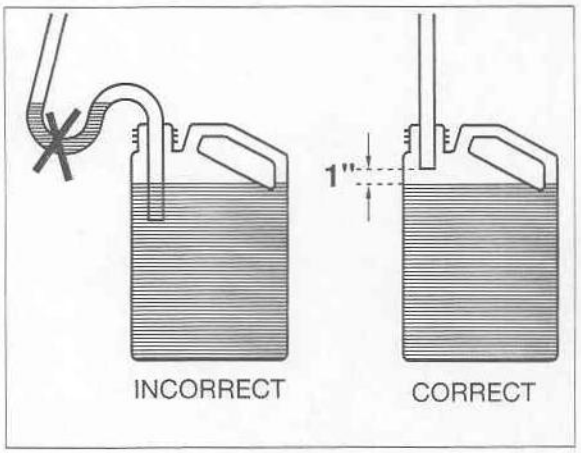


Figure 6. Correct Hose Length

Figure 8. Removal of Covers

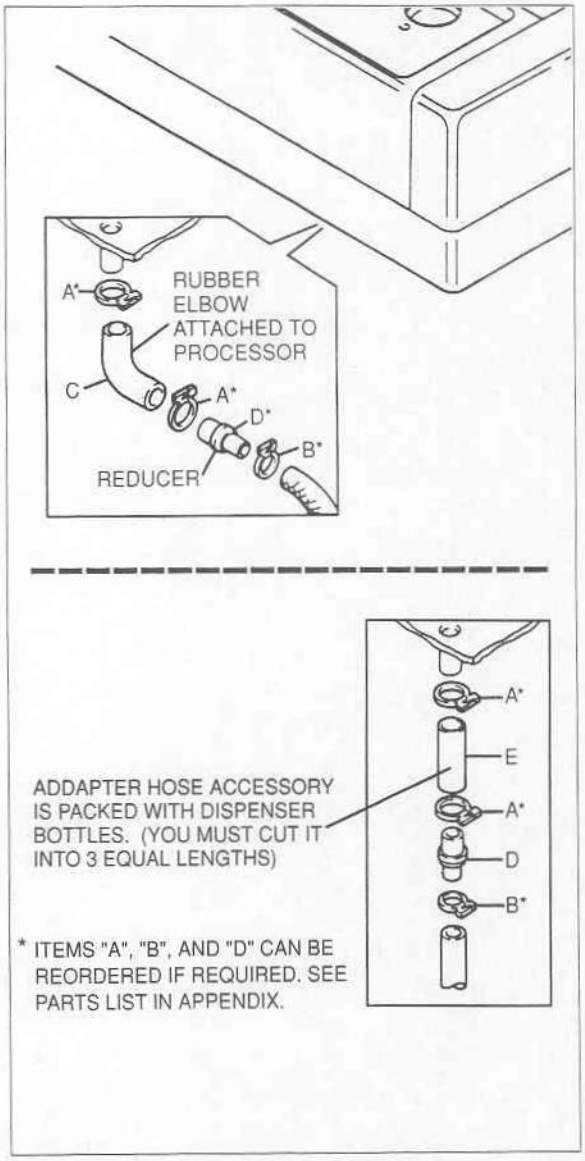


Figure 7. Changing to Straight Hose Sections

Figure 9. Removal of Polyfoam Sheets

NOTE: *The processor must be level for proper operation and replenishment of chemistry. Leveling screws are provided to make this adjustment. Turn clockwise to raise the processor. Turn counter-clockwise to lower the processor. Turning the screws is made easier by lifting slightly on the appropriate corner.*

Replace the Tank Covers. They are color coded for easy identification; Developer (red), Fixer (blue), Water (white.) Next, replace the Dryer Section Cover, and the Receiving Tray/Cover.

Level the Processor Front-to-Back
Place the builder's level as shown in Figure 10. Turn the leveling screw clockwise or counter-clockwise to level the processor front-to-back.

Level the Processor Left-to-Right
Place the level as shown in Figure 11 to adjust the level of the processor left-to-right.

Unpack the Light-tight Cover
Open the carton containing the Light-tight Cover Accessory and lift it out vertically as shown in Figure 12.

Install the Light-tight Cover Accessory
Slide the Light-tight Cover Accessory onto the Feed Tray and press firmly into position as shown in Figure 13.

Insert the Dispenser Bottles
Two sets of Dispenser Bottles are packaged in the small carton which also contained the Operator's Manual. One of the sets has color-coded valves attached. The color-codes match them to their corresponding bottle to avoid contamination of chemistry. Developer (red), Fixer (blue), Water (white.) Never interchange the valves.

Select the Dispenser Bottles with valves and place them into their receptacles in the Bottle Holder as shown in Figure 14. The bottles are empty at this time.

Fully Assembled CURIX 60 Processor
The fully assembled CURIX 60 Processor should appear as shown in Figure 15.

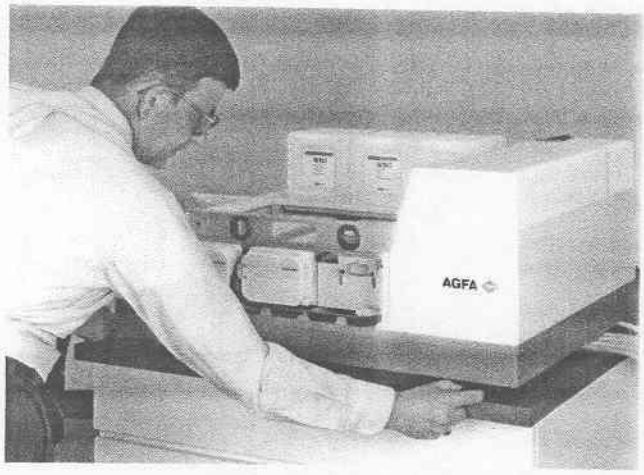


Figure 10. Level the Processor Front-to-Back

Figure 11. Level the Processor Left-to-Right

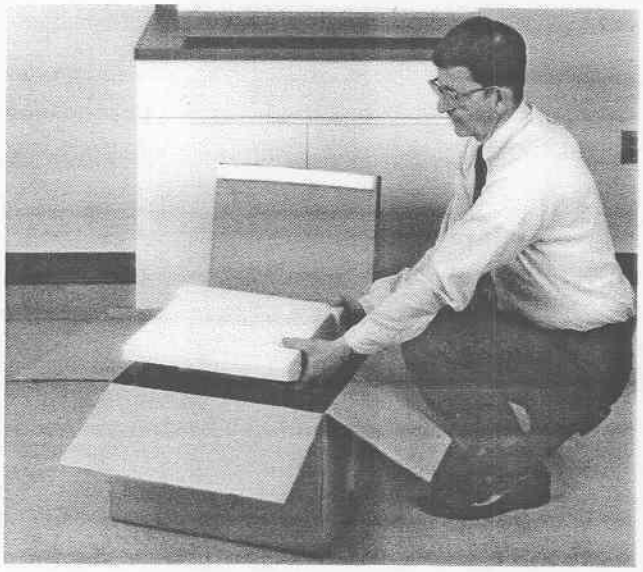


Figure 12. Unpack the Light-tight Cover

Figure 13. Install the Light-tight Cover Accessory

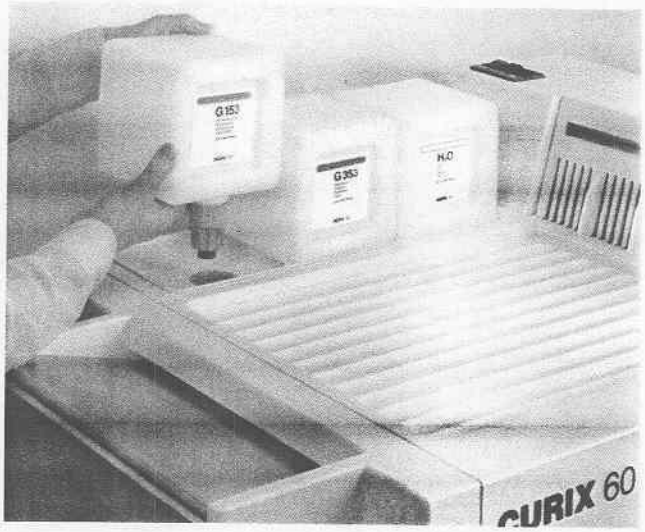


Figure 14. Insert the Dispenser Bottles

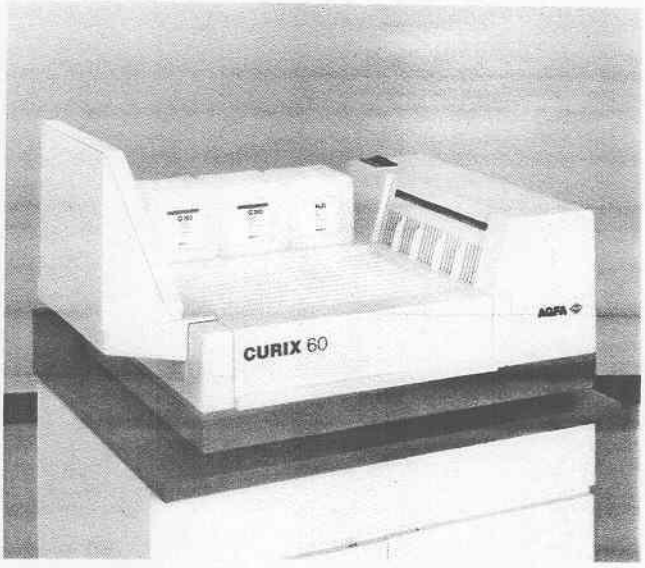


Figure 15. Fully Assembled CURIX 60 Processor

1.4 Optional Fixed Water Connection Accessory

Installation of Optional Fixed Water Connection Accessory Type 9424/100 (Catalog No. FZ3H2010)

For normal operation the CURIX 60 Processor does not need a separate water connection. Water is supplied and replenished by means of the Water Dispenser Bottle and Wash-Water Tank Assembly. It is possible, however, to install a fixed water connection for continuous water supply.

The Fixed Water Connection Accessory installation diagram is shown in Figure 16. The Pressure-Reducing Valve is connected to the water source (3/4" pipe with shut-off valve.) The connector is a male union with a 3/8" O.D. thread. The Pressure-Reducing Valve should be set to the values shown in the diagram.

Water temperature should be between 40° F and 70° F (5° C to 25° C.)

The Water Dispenser Bottle is removed and the hose connector is inserted into the water receptacle as shown.

CAUTION: The water line valve must be shut OFF at the end of work period. You must have a fixed floor drain for waste water when using this accessory.

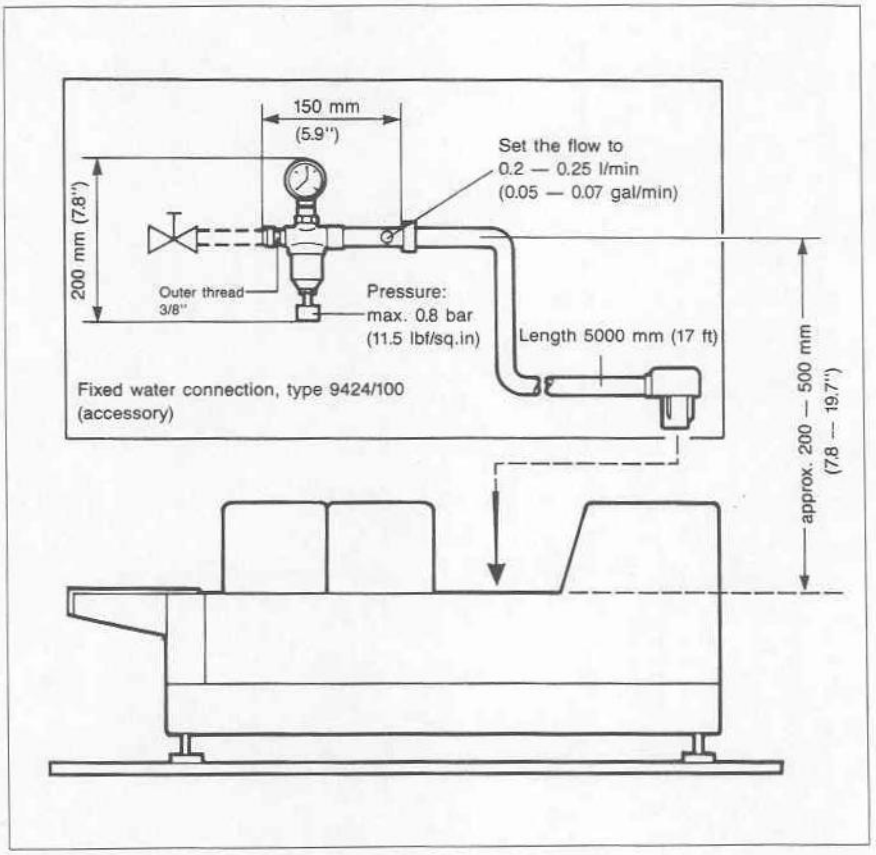
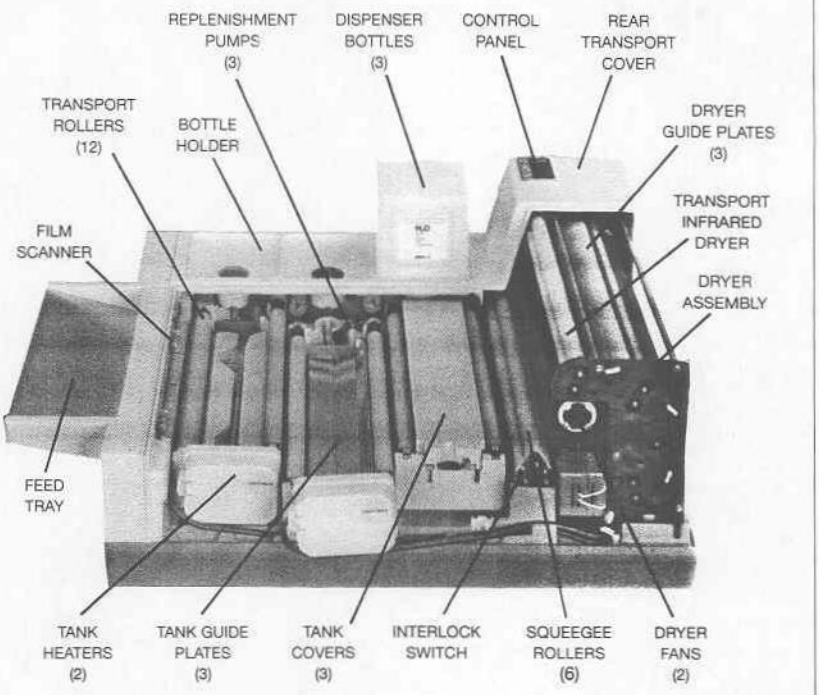


Figure 16. Installation of Fixed Water Connection

SECTION 2
Getting Started

2.1 Components of the CURIX 60 Processor

Before attempting to operate the CURIX 60 Processor, take a few moments to familiarize yourself with its components. See Figure 17.



Shown with Receiving Tray/Cover and Dryer Assembly Cover removed.

Figure 17. Components of the CURIX 60 Processor

Figure 18 shows a functional diagram of the processor.

Exposed film is inserted directly into the Feed Slot at the left side of the processor or through the Light-tight Cover and then into the Feed Slot.

The film first passes the Film Scanner which regulates the replenishment and dryer systems and then passes through the Developer, Fixer and Wash-Water Tanks, and into the Infrared Dryer Section.

After drying, the film exits the Dryer Section and is deposited on the Receiving Tray/Cover.

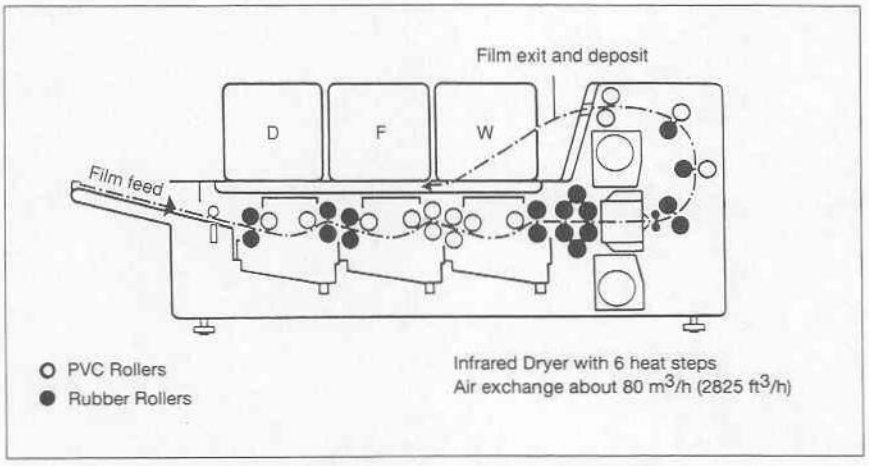


Figure 18. CURIX 60 Processor Functional Diagram

2.2 Operating Controls

CAUTION: Before turning the processor ON review the following operating controls.

The CURIX 60 Processor is easy to operate. There are only three controls. See Figure 19.

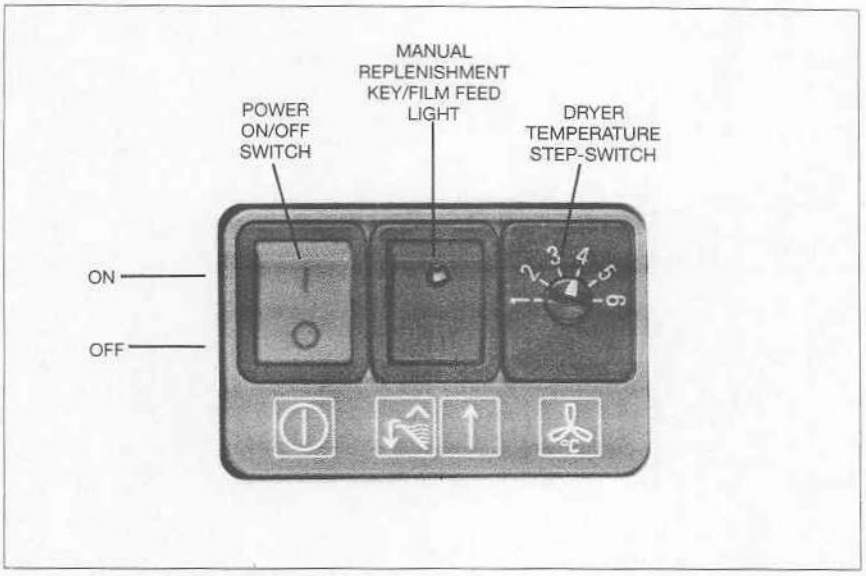


Figure 19. The Control Panel

The functions of the controls are as follows:

Red Power ON/OFF Switch

Position "I" turns the processor ON. Depending on the room temperature, solutions reach their proper operating temperature within about 7 minutes. Position "0" turns the processor OFF.

CAUTION: The Power Switch should never be turned OFF during film transport.

Manual Replenishment Key/Film Feed Light

The Manual Replenishment Key is depressed to start an additional 3-minute replenishment cycle. The key has a red indicator light that is illuminated during this replenishment cycle and also during film feed.

If the processor has been idle for more than a day, the Manual Replenishment Key should be depressed once. The indicator light will remain ON for the 3-minute cycle and then go OFF when replenishment is completed. Film may now be inserted into the processor.

Dryer Temperature Step-Switch

The normal setting for this switch is "3". The maximum setting is "6". The setting is easily adjusted if required. See SECTION 4 – Troubleshooting.

2.3 Processor Functions

An understanding of the processor functions will help you to recognize normal and abnormal operation.

When the Dispenser Bottles are inserted into the processor, the tanks are automatically filled to the bottom edge of the bottle valves. Tanks must be level to prevent premature drainage. (Instructions for leveling are covered on Page 8 in SECTION 1.)

When the Power ON/OFF Switch is turned ON, the Drive Motor, Pump Motor, Tank Heaters and Dryer Fans start to operate.

A starting cycle is carried out that is independent of solution temperatures and levels. During this cycle the Infrared Dryer Heaters are activated for 225 seconds (about 3 3/4 minutes) and the Dryer Fan operates for 265 seconds (about 4 1/2 minutes.)

It takes about 7 minutes for the Tank Heaters to warm the Developer and Fixer solutions. The Tank Heaters are factory set at 93° F.

When a film is fed into the processor it is detected by the Film Scanner, a pair of magnetic rollers. The indicator light on the Manual Replenishment Key is illuminated and the Infrared Dryer Heaters and Dryer Fan are immediately activated. The Film Scanner also measures the length of the film to determine replenishment rate.

When the end of the film is detected and the Film Scanner rollers are no longer turning, the following occurs:

The indicator light stays on for 15 seconds. When it goes off, another film can be fed into the processor.

Provided that no additional films have been inserted, 40 seconds after the last film exits the Dryer the Infrared Dryer Heaters turn off, and after an additional 40 seconds the Fans turn off.

As long as film-feed is detected, the Replenishment Pumps operate at double their normal speed. This increased circulation causes the contents of the Developer, Fixer, and Wash-Water Tanks to rise in their pump tubes and flow into the drains. An equivalent amount of fresh solution and wash water is replenished automatically from the supply.

2.4 Clean the Tanks Before Adding Chemicals

NOTE: *Prior to filling the Tanks for the first time it is recommended that they be removed from the processor and rinsed with tap water. This will require performing the standard cleaning procedure except that there will be no chemicals to drain. After rinsing and reassembling the components, the processor replenishment rate should be checked.*

1. Lift off the Receiving Tray/Cover.
2. Disengage the Tank Heater Cables from their retaining clips as shown in Figure 20. The Wash-Water Tank has no Heater or Heater Cable.
3. Lift the Wash-Water Tank Assembly slightly, pull it forward and remove it as shown in Figure 21. Set it aside.
4. Lift the Fixer Tank Assembly and withdraw it enough to disengage it from its drive gears.
5. Remove the Fixer Tank Cover as shown in Figure 22, and set it aside.
6. Lift and remove the Guide Plate as shown in Figure 23, and set it aside.
7. Remove the Tank Heater, by lifting vertically to disengage it from the retaining slots in the tank. Set the Heater (with cable attached) aside in the space previously occupied by the Waste-Water Tank. See Figures 24A & 24B.
8. Follow the same procedure for removal of the Developer Tank.
9. Take all the Tanks, Rollers, Tank Covers and Guide Plates to a sink and rinse them with luke-warm water. Rollers may be removed from the Tanks for cleaning, and they are numbered for easy replacement.
10. After rinsing the Tanks and tank components, replace them by reversing the disassembly procedure.

CAUTION: Make sure that: the Developer, Fixer and Wash-Water Tanks are properly engaged with their drive gears; the drain valves are fastened in the upright/closed position; the Heaters are engaged in their retaining slots and the Heater Cables are back in their clips. When replacing the Guide Plates, make sure that the bent edge is inserted into the groove in the tank adjacent to the even numbered rollers. Check that all parts match their respective color-codes and that the Receiving/ Tray Cover and the Dryer Assembly Cover are properly closed.

IMPORTANT:

*The Replenishment Pumps have been factory-set for average replenishment rates based upon processing 24 x 30 cm films. The replenishment cycle is controlled by the **length** of the film (EX: length = 30 cm). However, the **width** of the film will affect replenishment rate.*

If you will be processing either mainly larger or smaller sizes it will be necessary to adjust the pumps. See Table 1 on Page 16.

To save chemicals, first check the replenishment rate using water in the three spare Dispenser Bottles. If the replenishment rate is satisfactory, you can then fill the other set of Dispenser Bottles with chemicals.

FILL THE CHEMISTRY AND WASH-WATER DISPENSER BOTTLES WITH WATER TO THE 2.50 LITER MARK

Insert the Dispenser Bottles into their color-coded receptacles. The Tanks are automatically filled to the proper level. See Figure 25.

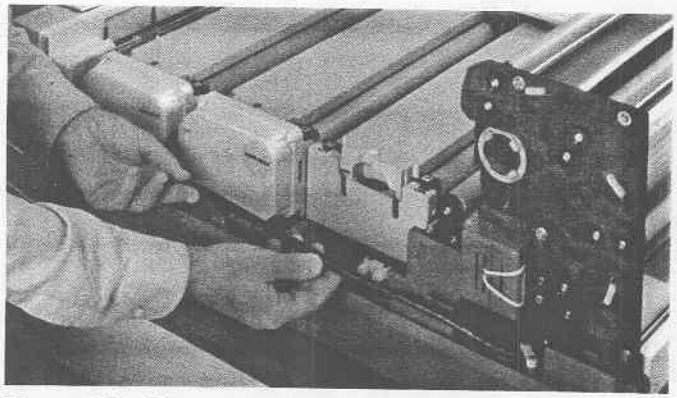


Figure 20. Disengage Heater Cable

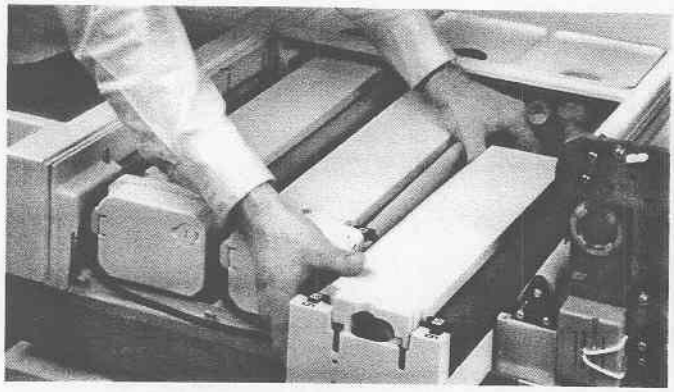


Figure 21. Disengage Tank

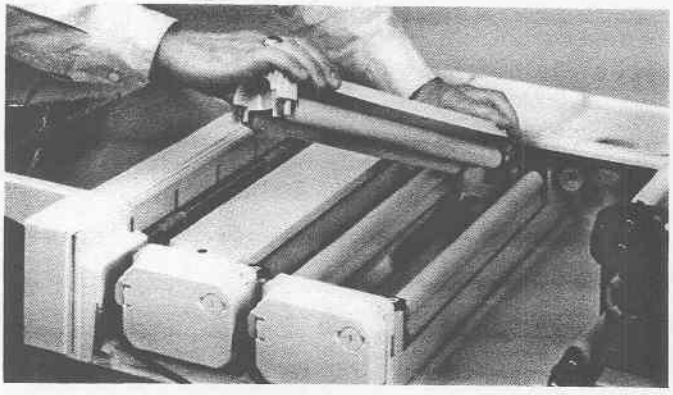


Figure 22. Remove Tank Cover

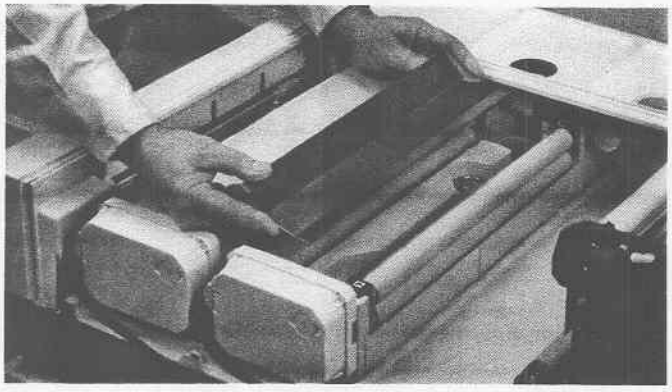


Figure 23. Remove Guide Plate

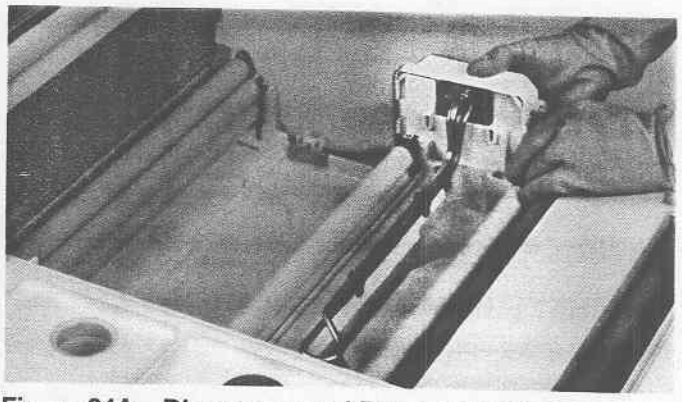


Figure 24A. Disengage and Remove Tank Heater

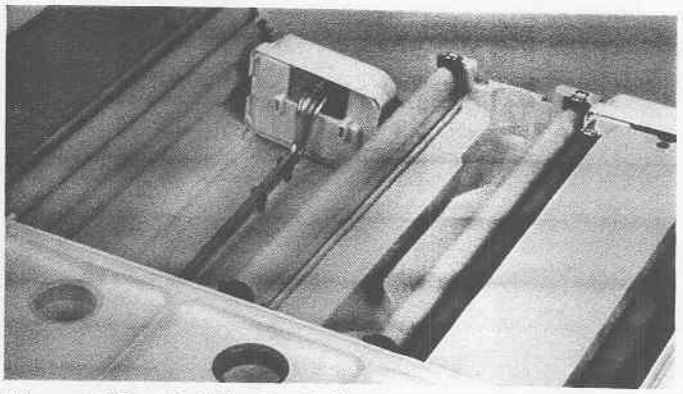


Figure 24B. Set Heater in Vacated Tank Space

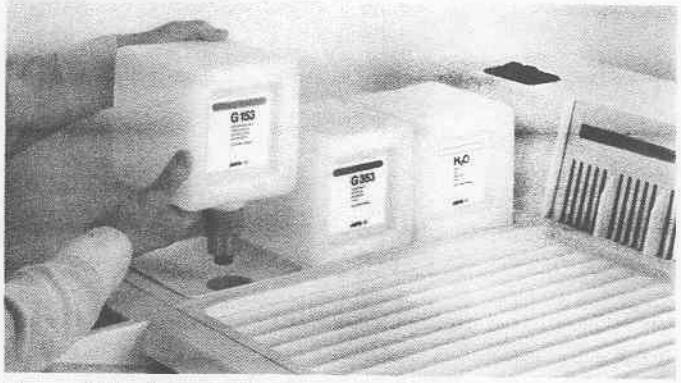


Figure 25. Insert Dispenser Bottles

2.5 Checking the Current Replenishment Rate

1. Insert full Dispenser Bottles and fill the Tanks.
2. Turn the processor ON and wait several minutes until tanks have completely filled.
3. Using a marker or grease-pencil, carefully mark the level on each bottle as shown in Figure 26.
4. Depress the Manual Replenishment Key. The indicator light turns on and the 3-minute replenishment cycle will begin.
5. Mark and measure the level difference from the first mark to second mark on each bottle after replenishment. See Figure 27.
6. Compare this rate with those in Table 1.

Table 1. Standard Replenishment Rates

3-min Cycle	Average Sizes 24 x 30 cm	Mainly Larger Sizes >24 x 30 cm	Mainly Smaller Sizes <24 x 30 cm
Developer	150 cc (5/16 in.)	175 cc (7/16 in.)	110 cc (3/16 in.)
Fixer	185 cc (7/16 in.)	225 cc (1/2 in.)	150 cc (5/16 in.)
Water	225 cc (1/2 in.)	265 cc (3/4 in.)	165 cc (7/16 in.)

Tolerance for all solutions is ± 15%.

If you will be processing mainly one of the optional sizes, or have an incorrect replenishment rate according to the table, the replenishment rate must be adjusted.

2.6 Standard Replenishment Rate Adjustment

NOTE: *The initial Replenishment Rate Adjustment should be made using water in the Dispenser Bottles. However, it may also be performed with chemistry in the Dispenser Bottles and Tanks, initially, or at some later time as required.*

A "Quick Adjustment Procedure" is provided on Page 18. It will save some time and may provide satisfactory results. Refer to Table 2 when using the "Quick Adjustment Procedure." If you are not satisfied with the results, use the Standard Procedure. Steps 1 through 5 and 7 through 10 will apply in both cases.

CAUTION: Adjustment of the Replenishment Pumps involves removal of the Receiver Tray/Cover and handling of the Tanks. If the adjustment is done with chemistry in the tanks, it is recommended that you wear protective gloves, glasses and an apron for your safety.

1. Remove the appropriate Dispenser Bottle(s) and the Receiver Tray/Cover. The processor will be automatically turned OFF.
2. Remove the Tank Heater Cables from their retaining clips.
3. Lift the appropriate tank(s) slightly and pull them forward enough to gain access to the Replenishment Pump(s). The Tank Covers do not have to be removed.
4. To adjust the replenishment rate, loosen the tabbed Locking Collar on the vertical pipe of the Pump Assembly by turning it counter-clockwise as shown in Figure 27A.
5. Insert a screw driver into the slotted adjustment screw on top of the vertical pipe of the Pump Assembly as shown in Figure 27B.
6. Carefully turn the screw in 1/4-inch increments; clockwise to decrease the replenishment rate, or counter-clockwise to increase the replenishment rate.

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Figure 26. Measurement After Tanks Are Filled

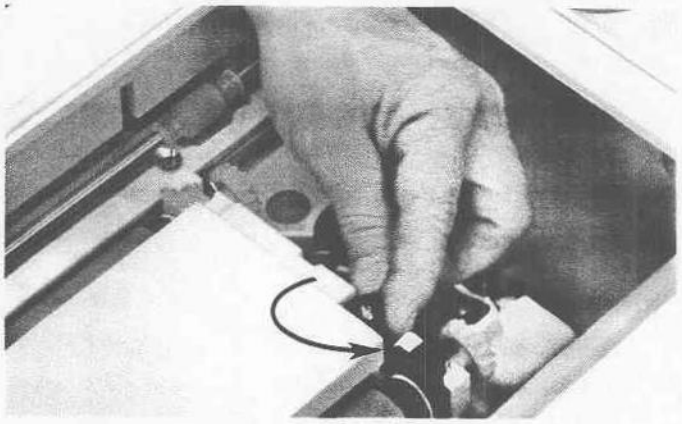


Figure 27A. Loosen Locking Collar

Figure 27. Measurement of Replenishment Rate

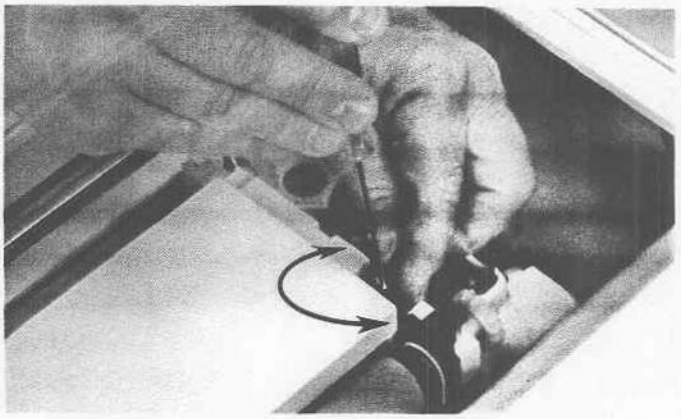
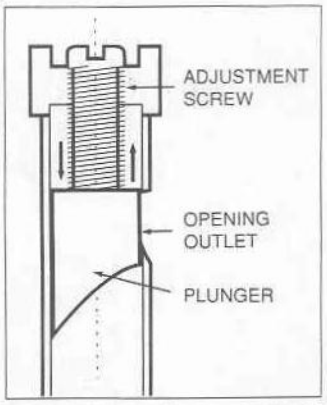


Figure 27B. Turn Adjustment Screw

7. Retighten the Locking Collar by turning it clockwise, while holding the adjustment screw in place with the screw driver to prevent its turning.
8. Slide the Tank(s) back into position, making certain that their drive gears are properly engaged.
9. Replace the Receiver Tray/Cover and return the Dispenser Bottle(s) to the Bottle Holder. The processor will turn ON automatically.
10. Depress the Manual Replenishment Key and release to initiate a 3-minute replenishment cycle.
11. Check the replenishment rate by marking the Dispenser Bottle(s) as previously described in Section 2.5 (steps 4 & 5.)
12. Repeat this procedure as required to match the rates in Table 1.
13. If you cannot successfully adjust the replenishment rate of your processor, call your dealer for service assistance or **call The Technical Hotline**.

2.7 "Quick Replenishment Rate Adjustment Procedure"



Adjustment Screw Detail

1. Perform steps 1 through 5 of the Standard Replenishment Rate Adjustment Procedure in Section 2.6.
2. However, turn the adjustment screw clockwise until the pumps are fully closed. (See detail at left)
3. Back off the adjustment screw by turning it counter clockwise: 1/4 turn for Developer; 1/2 turn for Fixer; 3/4 turn for Water
4. Perform steps 7 through 10 of Standard Procedure in Section 2.6.
5. Compare the level drop in each Dispenser Bottle with Table 2 and readjust as needed.

Volume of Film	Tank Solution	No. of 14" x 17" per 2.5 L	Replenishment per 14" x 17"	Level Drop per 3-min cycle
AVERAGE MIX OF FILM SIZES	DEV	33 films	75 cc	**8.5 mm (5/16")**
	FIXER	27 films	92.5 cc	**10.5 mm (7/16")**
	WASH	22 films	112.5 cc	**13.0 mm (1/2")**
LARGE SIZE MIX MOSTLY 14" x 17"	DEV	28 films	87.5 cc	**10.0 mm (7/16")**
	FIXER	22 films	112.5 cc	**13.0 mm (1/2")**
	WASH	19 films	132.5 cc	**15.0 mm (9/16")**

Table 2 – "Quick Adjustment" Replenishment Rates

2.8 Mixing the Developer and Fixer Chemicals

NOTE: *New CURIX G354 Fixer Concentrate is a single-part fixer which provides low oder characteristics.*

CURIX G153 Developer Concentrate includes two premeasured bottles marked "A" and "B". CURIX G354 Fixer Concentrate is a single premeasured bottle marked "A".

Although most properly mixed developers and fixers suitable for automatic processors can be used with the CURIX 60 Processor, Agfa recommends that CURIX G153 Developer Concentrate (Catalog No. FY1H0070) and CURIX G354 Fixer Concentrate (Catalog No. FY1H0078) be used (see note). These ready-packaged concentrates are easy to dispense and mix, and ensure that each batch of chemistry will be freshly prepared. Also, Agfa chemistry is specifically formulated to provide optimal image quality when processing Agfa medical films.

WARNING: Avoid contact of chemicals with skin or clothing. It is recommended that protective glasses, gloves and an apron be worn when handling and mixing chemistry. Work slowly, avoid splashing, and clean up all spills with water and a sponge.

In the event of contact with chemicals, rinse the area thoroughly with cold water since dilution weakens the chemical effect.

Hazard instructions are printed on the chemical bottle labels. Read them carefully before opening the bottles. Dispose of empty chemical bottles and waste chemicals in accordance with local codes. Material Safety Data Sheets are available from Agfa Corporation by calling, or writing to the address listed on this manual.

Figure 28. Pierce Seal of G153 Developer Bottle

Figure 31. Pour in G153 Concentrate "B"

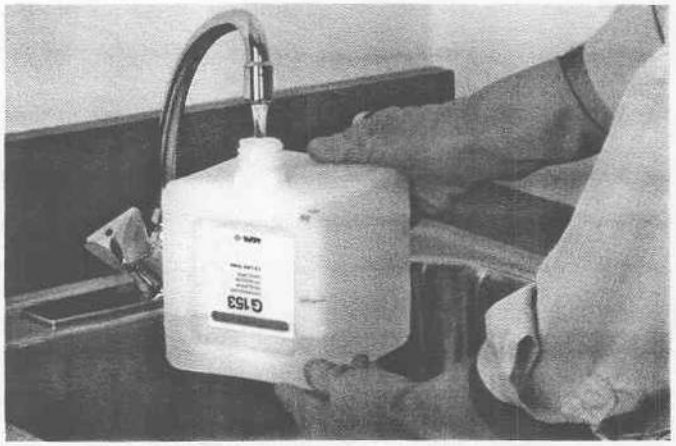


Figure 29. Fill G153 Dispenser Bottle with Water

Figure 30. Pour In G153 Concentrate "A"

1. Remove the three empty Dispenser Bottles from the processor. Take the Dispenser Bottles and the three bottles of concentrate to a sink. Remove the valve from the G153 Developer Dispenser Bottle. Unscrew the cap of the G153 Developer Concentrate "A" bottle, turn the cap over and cut through the seal of the bottle as shown in Figure 28.
2. Rinse the G153 Dispenser Bottle and then fill it with water to the 1.25 L mark as shown in Figure 29. Then, pour G153 Developer Concentrate "A" into the Dispenser Bottle as shown in Figure 30. Agitate slowly to mix the solution.
3. Pierce the seal of G153 Developer Concentrate "B" and pour it into the Dispenser Bottle. See Figure 31. Fill the bottle with water to FULL (2.5 L) mark and replace the valve. Shake the bottle to thoroughly mix the solution.
4. Follow the same procedure for mixing Fixer, topping off with water, if necessary to reach the 2.5 L mark.
5. Fill the Water Dispenser Bottle to the FULL (2.5 L) mark and replace the valve.
6. Clean up the work area with a wet sponge.

2.9 Start-up Procedure

1. Plug the power cord into the wall outlet.
2. Turn off all lights but the darkroom safelight.
3. Turn the Processor ON.

NOTE: *The processor will automatically be switched OFF if the Dryer Assembly Cover or Receiving Tray/Cover are not properly closed.*

4. Wait 7 minutes to achieve operating temperature.
5. **Run a test film first.** Open the Light-tight Cover and Insert the exposed film into the Feed Slot until the indicator lamp on the Replenishment Switch lights (red). When the indicator light turns off, the next film can be inserted.
6. Check to see if processing and drying is satisfactory. If everything seems satisfactory you can start regular processing.

NOTE: *If you detect an operating problem, refer to SECTION 4 – Troubleshooting, or call the Technical Hotline. But, first try switching the processor OFF and ON again. This can often correct the problem.*

SECTION 3
Cleaning the CURIX 60 Processor

NOTE: *Proper cleaning of your processor is essential to maintain optimal image quality. However, the CURIX 60 Processor has been designed for easy cleaning and maintenance. Non-corrosive materials have been used throughout, and all parts that require regular cleaning are easy to remove without tools.*

The following should be performed on a regular basis:

EACH DAY:

At the end of each day's work, raise the Receiving Tray/Cover slightly to prevent condensation of chemicals.

EACH WEEK:

✔ Drain and clean Wash-Water Tank

If you are processing less than 80 films per week perform the following every week:

✔ Drain Developer and Fixer Tanks and Dispenser Bottles. Replace exhausted chemicals.

✔ Clean Tank Covers and Rollers, Transport Rollers, Guide Plates, Tanks and Replenishing Pumps, Dispenser Bottles and Bottle Valves, Film Scanner, and Feed Tray.

If you are processing more than 80 films per week perform the above every two weeks:

EACH MONTH:

✔ Clean the Distribution Roller Assembly (Squeegee Rollers.)

CAUTION: You are reminded again to handle all chemicals with care, to wear protective gloves, and an apron to protect your clothing, to wear protective glasses for your safety and conform to local codes regarding the disposal of waste chemistry.

When cleaning the processor always adhere to the following general directions:

---

1. DISCONNECT POWER CORD FROM OUTLET.
2. Never use hot water. The highest temperature allowed is 104°F (40°C).
3. Electric cables to heaters are permanent and must not be disconnected.
4. Never clean chassis or plastic parts of heaters in running water. Wipe with a damp cloth or sponge.
5. Roller sets are numbered for proper replacement after cleaning.

   Developer Roller sets are numbered "1" & "2"

   Fixer Roller sets are numbered "3" & "4"

   Wash-Water Roller sets are numbered "5" & "6"
6. The Tank Covers, Bottle Valves, Bottle Holder and chemical and water tanks are color coded to prevent contamination of the chemicals and for ease of assembly after cleaning. They **must** be returned to their proper location after cleaning.

3.1 Removing and Cleaning of the Tanks

1. Turn the Power Switch OFF.
2. Remove the power cord from the wall receptacle.
3. Remove the Dispenser Bottles and Receiving Tray/Cover.
4. Disengage the Tank Heater Cables from their retaining clips. See Figure 32.
5. Lift up and forward to disengage the Wash-Water Tank from its drive gears, and to gain access to the Tank Drain Valves. See Figures 33.
6. Remove the Tank Cover. See Figure 34.
7. Remove the Guide Plate. See Figure 35.

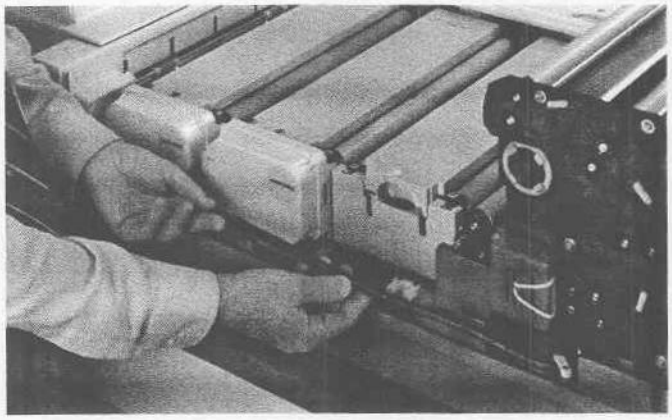


Figure 32. Disengage Tank Heater Cables

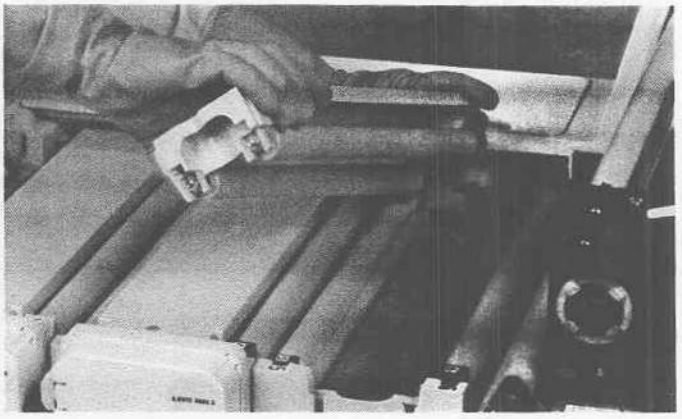


Figure 34. Remove Tank Cover

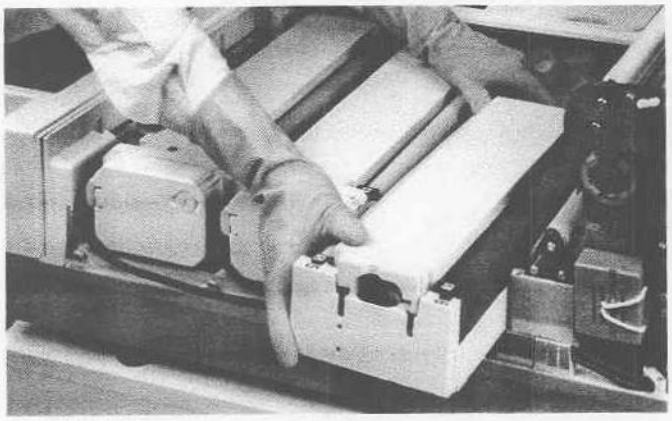


Figure 33. Disengage Wash-Water Tank

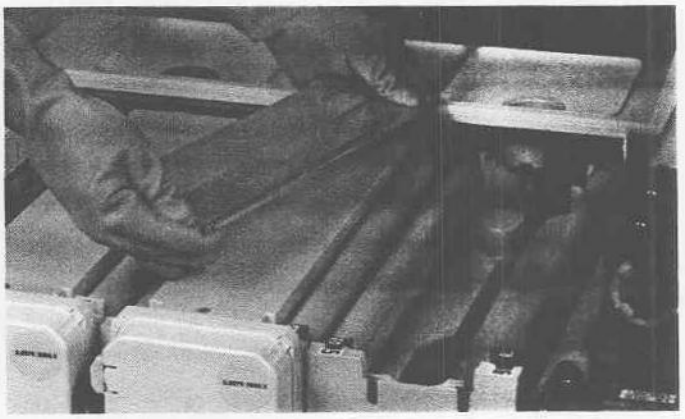


Figure 35. Remove Guide Plate

8. Drain the Tank by releasing the Drain Valve Clamp as shown in Figure 36. It may be necessary to gently pull on the end of the Drain Tube to facilitate proper draining. For easy flow the Drain Tube should not be kinked.
9. Take the Wash-Water Tank to a sink for cleaning.
10. Repeat steps shown in Figures 33 through 36 for Developer and Fixer Tanks.
11. Remove the Tank Heaters by disengaging them from their retaining slots. See Figure 37.
12. Place the Heaters in the space vacated by the Wash-Water Tank. See Figure 38.
13. Take the Developer and Fixer Tanks, Tank Covers and Guide Plates to a sink for cleaning.
14. Disengage the Film Scanner. See Figure 39. Take it to a sink for cleaning.

Figure 36. Drain the Tank

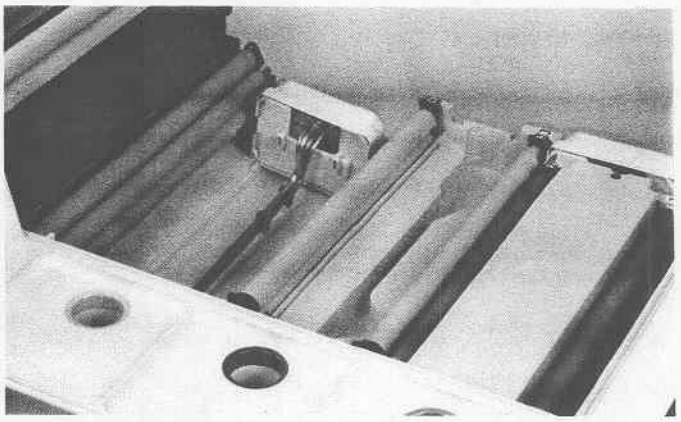


Figure 38. Set Heater in Vacated Tank Space

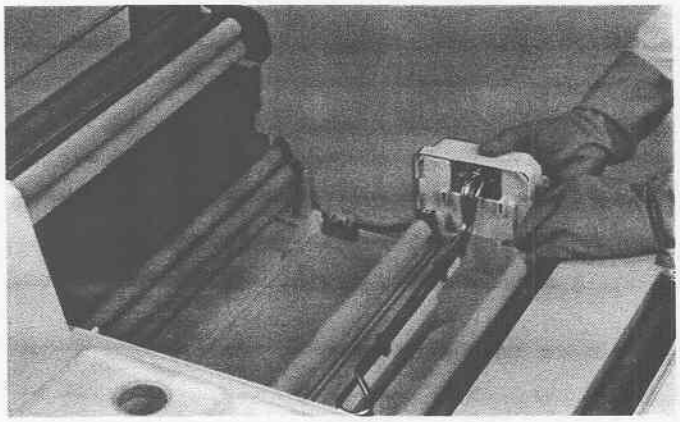


Figure 37. Disengage Heater

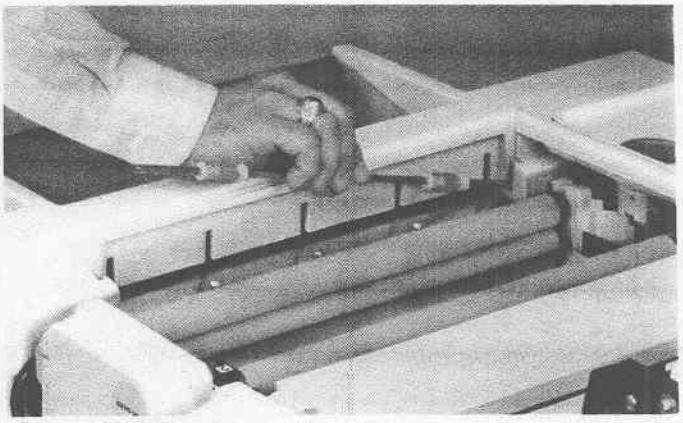


Figure 39. Disengage Film Scanner

Perform the following steps at the sink:

1. Remove the Transport Rollers from the Tanks and wash them with a sponge and running water. See Figure 40.
2. Unfasten the Replenishment Pumps by rotating the retaining levers. Remove and wash the Pumps. See Figures 41 & 42. Replace the Replenishment Pumps and refasten them with the retaining levers.

   Observe the Pump color-codes, Developer (red), Fixer (white), Water (black), to avoid contamination.
3. With the Tank Drain Valve open, wash each Tank under running water, allowing water to drain through the valve. After draining, close the Tank Drain Valve.
4. Wash the Guide Plates, Tank Covers and Rollers.
5. If Squeegee Rollers (Distribution Roller Assembly) have to be washed, lift them from their support blocks as shown in Figure 43. Wash and replace them as one unit. **Do not disassemble the Squeegee Rollers.**
6. Remove the Light-tight Cover Accessory.
7. Using a sponge and luke-warm water:

   Clean the Feed Slot and Tray. See Figure 44.

   Clean the Drainage Troughs. See Figure 45.

   Clean any chemical residue on the Bottle Holder and any exterior surface of the processor chassis.
8. Replace the Light-tight Cover Accessory.
9. Replace the Rollers, Guide Plates, Heaters, and Tank Covers and install the Tank Assemblies into the processor. Follow the color-codes carefully.
10. Replace the Film Scanner and securely close the Dryer Assembly Cover and Receiver Tray/Cover.

Chemistry and Water Dispenser Bottles may now be inserted and the Tanks will be automatically refilled.

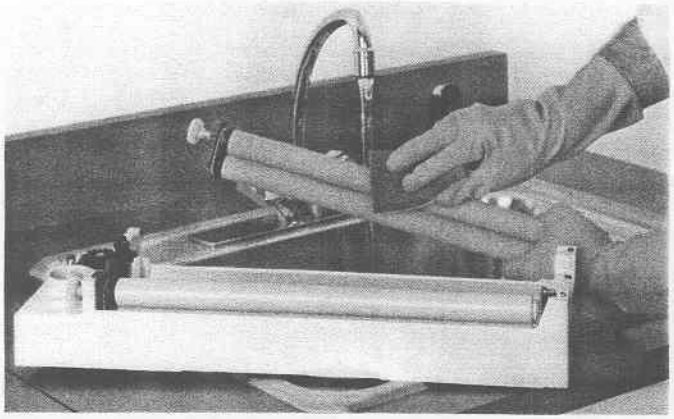


Figure 40. Remove and Wash Rollers

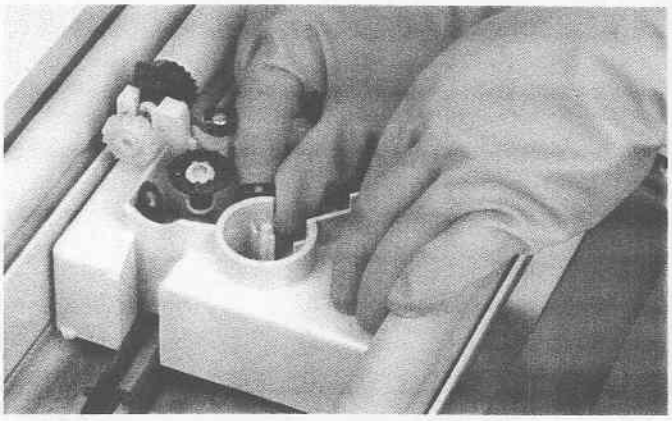


Figure 41. Unfasten Replenishment Pump

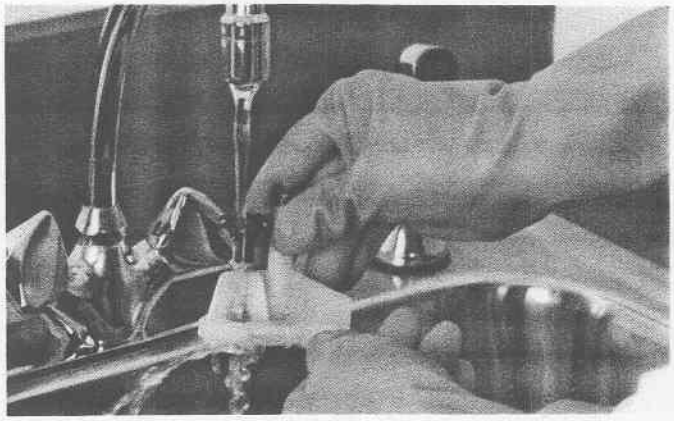


Figure 42. Remove and Wash Replenishment Pump

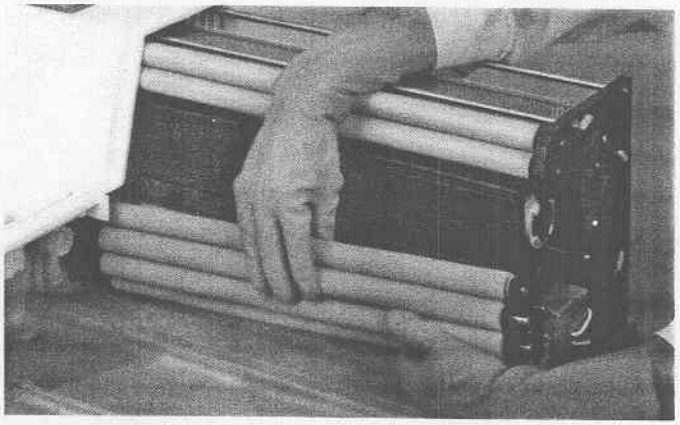


Figure 43. Remove and Wash Squeegee Rollers

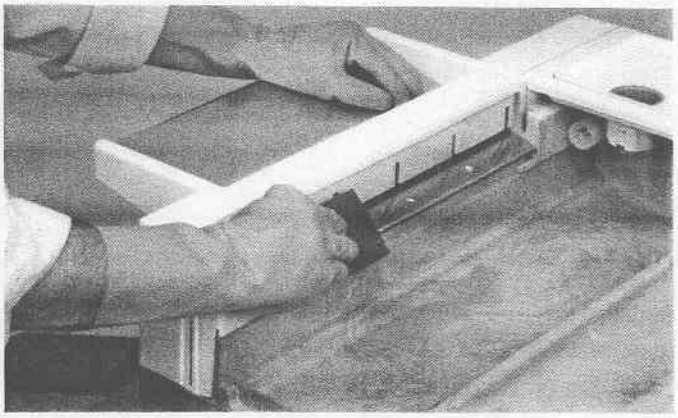


Figure 44. Clean Feed Slot and Feed Tray

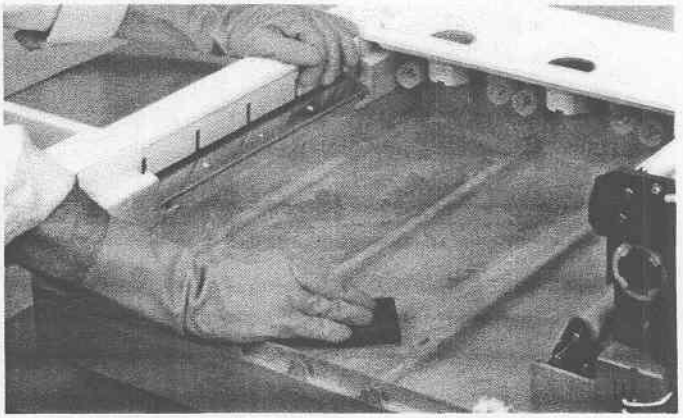


Figure 45. Clean Drainage Troughs

SECTION 4 Troubleshooting Checklist

NOTE: *Some problems may be corrected simply by turning the Power Switch OFF, and then, ON again.*

Some problems may require parts replacement and Instructions are provided in SECTION 5 – Maintenance. The Service Parts Kit contains the most common replaceable parts. Most of these parts can be replaced with only a screwdriver, and special tools are not required.

The CURIX 60 Processor is designed for trouble-free operation. Nevertheless, if you encounter some problems which result from improper operating procedures, processing techniques, or equipment malfunction, this section is provided to help you analyze the problem, determine its cause, and find out if it can be remedied without requiring a service technician.

Most problems related to processed film can be traced to improper operating, replenishment or cleaning procedures. If you have followed the setup, operating and cleaning instructions in SECTIONS 1, 2, and 3, the problem may be caused by an electrical or mechanical malfunction.

The following Troubleshooting Checklist should help you to identify and correct the most common problems. If you encounter difficulty and require assistance, check Appendix C for "How to Get Help When You Need It." It will tell you what information you should have ready before you call our Toll-Free Technical Hot-Line. If a service technician is required, you can arrange for one at this time, or by calling the local dealer from which your processor was purchased.

4.1 Processor Fails to Operate – Power Switch is ON

- ❒ Check that the Power Cord is plugged in.
- ❒ Check the condition of the fuse to the power outlet.
- ❒ Check that the Receiver Tray/Cover is firmly in place.
- ❒ Check that the Interlock Pins are present in the Dryer Assembly Cover and Receiver Tray/Cover are engaging the Interlock Switch. If either Pin is missing it must be replaced.
- ❒ Check the fuse SI-2 (6.25 A) in the compartment under the Dryer. Replace the fuse if it is blown. See SECTION 5 – Maintenance, Procedure 5.1.2, Page 34.
- ❒ If none of the above, the problem may be caused by a defective Power Switch or electrical circuit malfunction. **Call The Technical Hotline for Service Assistance.**

4.2 Film Transport Failure – Power Switch is ON

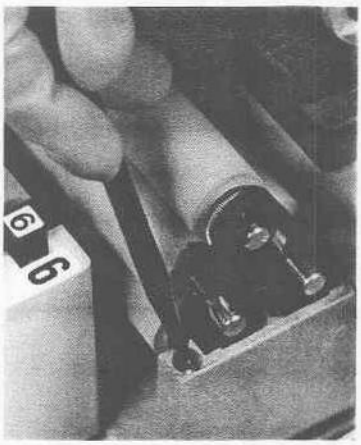


Figure 46. Depressing the Interlock Switch

❒ Check that all the rollers are turning. To do this the Power Switch must be ON. However, to view the rollers, it is necessary to remove the Receiver Tray/Cover and this automatically turns the processor OFF. It is necessary, therefore, to manually actuate the Interlock Switch to turn the processor ON.

To momentarily check the transport rollers, depress the Interlock Switch through the Dryer Assembly Cover with a pen or pencil, as shown in Figure 46.

CAUTION: Always wear rubber gloves, protective glasses and an apron when exposed to chemicals. It is also recommended that the Tanks be drained before handling parts submerged in chemistry.

❒ If a film is jammed, or fails to transport through a particular section, (ie: Developer, Fixer, or Wash Water) turn the Power Switch OFF. Remove the Receiver Tray/ Cover and appropriate Tank Cover(s).

❒ Check for mechanical problems such as displaced Roller Racks, Transport Rollers or Guide Plates, or defective gears. Withdraw jammed film, adjust component(s) and resume operation. See Section 5 – Maintenance, Procedure 5.2, Page 36 for gear replacement.

❒ If a film is wrapped around a Transport Roller, the problem is probably caused by exhausted chemicals. Remove the film and replace the chemistry.

To resume processing, replace the Tank Cover(s), firmly close the Receiver Tray/Cover, and turn the Power Switch ON. Wait for the processor to recycle.

❒ If no rollers are turning, the Drive Motor may be defective. **Call The Technical Hotline.**

❒ If individual rollers are not turning, check their drive gears. TURN THE POWER SWITCH OFF. Inspect the Upper Rollers and Drive Gears in the Tank Cover(s). Then, remove the Roller pairs to inspect the Drive Rollers and Drive Gears. Defective gears must be replaced. See SECTION 5 – Maintenance, Procedure 5.2.

The trouble may also be caused by loose or missing gears and/or snap rings in the Main Drive System. The rear cover must be removed to gain access to the Main Drive System. See SECTION 5 – Maintenance, Procedure 5.3, Page 40.

4.3 Film Drying Problems

Most film drying problems are caused by insufficient hardening of the film due to inadequate Fixer replenishment or exhausted Fixer. However, the problem can also be caused by mechanical or electrical failure in the Control Circuits, Dryer or replenishment system, or by adverse temperature or humidity conditions.. You may have to check one or more of the following:

4.3.1 MECHANICAL/ELECTRICAL (Dryer Infrared Tubes and/or Dryer Fans)

- ❒ Check for excess temperature or humidity. Ambient temperature should be less than 86° F and relative humidity should be less than 80%.
- ❒ Check that the Dryer Fans are operating. Turn the Power Switch OFF, and then ON to activate a 4 1/2-minute (265 second) fan sequence. If the Dryer Fans are inoperative, the problem may be a blown fuse SI-1.

  Check the 6.25A-fuse SI-1 which is located under the Dryer Assembly. If fuse SI-1 is blown, replace it with a fuse (Part No. CM+7.0451.9705.0) from Service Parts Kit. See SECTION 5 – Maintenance, Procedure 5.1.2, Page 34.

  If it blows a second time, **call The Technical Hotline.**

  If fuse SI-1 is O.K.but the Dryer Fans are still not operating, **call The Technical Hotline.**
- ❒ Check that the Infrared Tubes in the Dryer Assembly light during the Dryer Fan cycle. They can be viewed by removing the Dryer Assembly Cover. However, in order to light the Infrared Tubes with the Dryer Assembly Cover and Receiver Tray/Cover removed, the Interlock Switch will have to manually depressed using a pen or pencil to keep processor turned ON.

  If fuse SI-1 is not blown and either or both of the Infrared Tubes do not light, they are probably defective. **Call The Technical Hotline.**

  If fuse SI-1 is not blown and both the Dryer Fans and Infrared Tubes are not functioning, check SI-3 or the 1.6A fuse on the Timer Circuit Board. See SECTION 5 – Maintenance, Procedures 5.1.1 & 5.1.4, Page 34.

4.3.2 CHEMICAL/REPLENISHMENT (Fixer and Fixer Replenishment)

- ❒ If the processor has been idle for more than one day, the Fixer may have to be replenished. Depress the Manual Replenishment Key and wait for the 3-minute replenishment cycle to be completed.

  The indicator light should remain illuminated for the full 3-minute cycle and the Replenishment Pump Motor should operate at two times its normal speed.

- ❒ If the Indicator does not light, See Procedure 4.3.3.

- ❒ If the Indicator does light but the Pump Motor does not increase in speed, the problem may be a blown fuse SI-2, a defective Pump Motor, or an electrical problem. See Procedure 4.3.3.

- ❒ Since the problem could also be caused by insufficient Fixer replenishment, the replenishment rate can be checked by marking the Dispenser Bottle prior to depressing the Manual Replenishment Key and following steps 2 through 6 on Page 16, SECTION 2.5. If the replenishment rate is incorrect according to Table 1, perform the replenishment rate adjustment steps on Page 16 - 18, SECTION 2.5 and 2.7.

- ❒ If the replenishment rate is correct, check for proper film drying by running an exposed test sheet of film.

- ❒ If there is still a drying problem, the Fixer may be exhausted. If the tanks have not been cleaned according to the weekly schedule on Page 21, SECTION 3, drain and clean the Fixer Tank and Dispenser Bottle. Replace the Fixer Tank. Mix a new solution of Fixer in the Dispenser Bottle and insert Dispenser Bottle. The Tank will fill automatically. Check for proper drying by running an exposed test sheet of film.

4.3.3 MECHANICAL/REPLENISHMENT (Replenishment Pump, Gears, Motor, Drive Belts)

- ❒ Listen for the sound of the Replenishment Pump Motor. If the motor speed does not increase to two times its normal rate when the Manual Replenishment Key is depressed, the motor could be defective or fuse SI-2 could be blown. Fuse SI-2 is located next to fuse SI-1 in the compartment underneath the Dryer Assembly. Instructions for replacing this fuse are provided in SECTION 5 – Maintenance, Procedure 5.1.3, Page 34.

  Pump Motor replacement requires a Service Technician. **Call The Technical Hotline.**

- ❒ If the Pump Motor seems to be operating properly, check that the Fixer Replenishment Pump is operating properly. The trouble may be caused by a defective Pump Gear, Pump Drive Gear, Pump Drive Belt or Pump Motor Drive Belt. Check to see whether chemicals pass through the Drain Hoses into the Waste Bottles when the Replenishment Key is depressed.

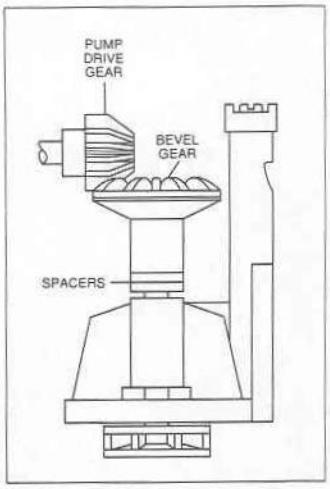


Figure 47. Bevel Gears

- ❒ Check if any gears are binding or making any unusual noises.
- ❒ To inspect the Pump Gears and Pump Drive Gears, the Receiver Tray/Cover and Tank Cover needs to be removed as in the cleaning procedure. Manually depress the Interlock Switch to restart the processor as shown in Figure 46.

  The Pump Gears must be properly engaged with their associated Drive Gear. Both gears are beveled as shown in Figure 47. If either or both gears are defective or worn, replenishment will be affected.

  The height of the Pump Gear is critical to gear engagement and may require adjustment. Instructions for adjustment and replacement of the Pump Gears are provided in SECTION 5 – Maintenance. A spare Pump Gear (Part No. CM+7.9432.2854.1) is provided in your Service Parts Kit. A spare Drive Gear is not provided. If this part is defective, **call The Technical Hotline.**
- ❒ If none of the Pump Gears are turning but the Pump Motor sounds O.K., check for a broken or slipping Pump Motor Drive Belt. This belt connects the Pump Drive Motor to the Replenishment Pump Drive. A spare belt (Part No. CM+7.0389.6536.0) is provided in your Service Parts Kit. For replacement instructions, see SECTION 5 – Maintenance, Procedure 5.3.3, Page 42.
- ❒ The trouble may also be a broken or slipping Pump Gear Drive Belt. This belt simultaneously drives the three pumps. It may be inspected at the same time as the Pump Motor Drive Belt. A spare is not provided in your Service Parts Kit. If the Pump Gear Drive Belt is defective, **call The Technical Hotline.**

4.4 Appearance of Processed Film

4.4.1 SCRATCHING (lengthwise)

- ❒ Check condition of the Feed Table and the Tank Guide Plates and clean them with a sponge and luke-warm water if required. Dry the Feed Table prior to processing a film.
- ❒ Check the Dryer Guide Plates for loose or missing Keepers. The Receiver Tray/Cover and the Dryer Cover must first be removed. See Figure 48. Several replacement Keepers (Part No. CM+7.8185.6023.1) are included in the Service Parts Kit. Instructions for replacing a Guide Plate Keeper are provided in SECTION 5 – Maintenance, Procedure 5.5.
- ❒ Check for dirt or deposits on the Dryer Guide Plates while the Dryer Cover is removed. Clean the Guide Plates with a sponge and luke-warm water.

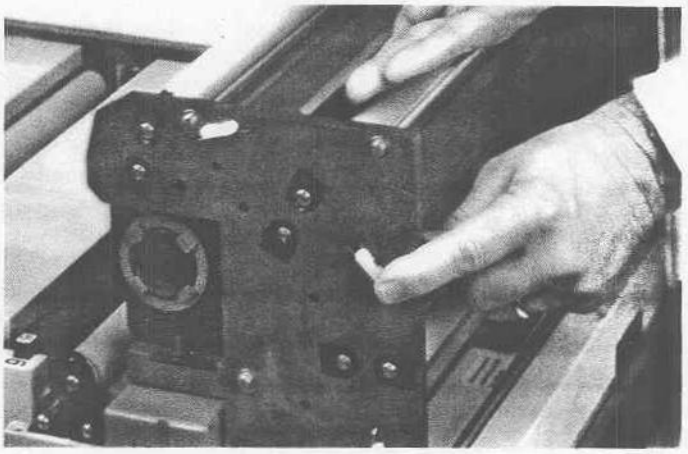


Figure 48. Checking Keepers and Guide Plates

4.4.2 ROLLER MARKS (crosswise)

- ❒ Check condition of the Tank Rollers and Squeegee Rollers. Remove the Receiver Tray/Cover, Tank Covers and Dryer Assembly Cover to access the rollers. Clean the rollers with a sponge and luke-warm water or remove them and clean them in a sink.
- ❒ Check the Tank Roller Springs for proper tension. If they are loose, replace them with spares (Part No. CM+7.9432.2109.1) from your Service Parts Kit. See SECTION 5 – Maintenance, Procedure 5.4.1.
- ❒ Check the upper and lower Roller Drive Gears for damage. See Figure 49. Replacement Gears and Fasteners (Part No. CM+ 7.9432.2022.0 through CM+ 7.9432.2116.0) are included in the Service Parts Kit. See SECTION 5 – Maintenance, Procedure 5.2.1
- ❒ Check Developer replenishment rate. If adjustment is required, follow steps on Pages 16 -18, SECTIONS 2.6 and 2.7.
- ❒ Check Developer. Exhausted Developer should be replaced. Follow regular cleaning procedure in SECTION 3.
- ❒ Check the Squeegee Roller Drive Gear. See SECTION 5 – Maintenance, Procedure 5.2.3.

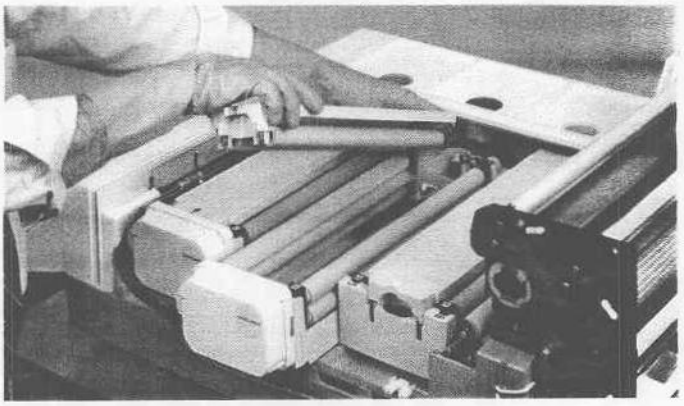


Figure 49. Checking the Roller Drive Gears

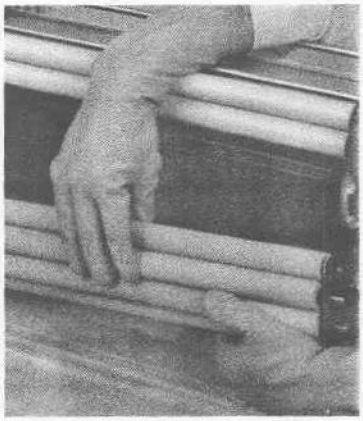


Figure 50. Checking the Squeegee Roller Assembly

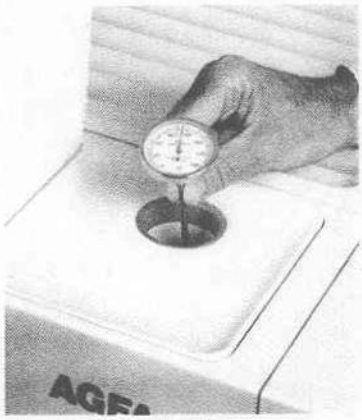


Figure 51. Checking Developer Temperature

4.4.3 WATER SPOTS

- ❒ Check the Squeegee Rollers for dirt deposits. Clean with luke warm water. The Receiving Tray/Cover and Dryer Assembly Cover must first be removed. Removal of the Water Dispenser Bottle and Wash-Water Tank will provide easier access to the Squeegee Rollers. See Figure 50.

- ❒ Check the Squeegee Roller Assembly for stretched Retaining Springs. The Retaining Springs (Part No. CM+ 7.8187.6853.0) hold the cluster of five rollers together tightly. Remove the Squeegee Roller Assembly to inspect the springs on each end. Do not disassemble the Squeegee Rollers at this time, however, if the rollers are loose, the springs will have to be replaced. The Retaining Springs are not supplied in the Service Parts Kit and will have to be ordered by **calling The Technical Hotline**. Instructions for replacement of the Retaining Springs are provided in SECTION 5 – Maintenance, Procedure 5.4.2.

4.4.4 IRREGULAR DRYING PATTERNS

- ❒ Check that the dryer temperature is not too high.

- ❒ Check that the room temperature is not too low.

- ❒ Check for proper operation of the Dryer Fan. See 4.3.1. on Page 28.

4.4.5 INSUFFICIENT CONTRAST

- ❒ Check the Developer. If the processor has been idle, press the Manual Replenishment Key and wait for the 3-minute replenishment cycle.

  Run an exposed test sheet of film to check results.

- ❒ Check the developer temperature. See Figure 51. If the temperature is not in the range of 92° F to 94° F, **call The Technical Hotline**.

- ❒ The Developer may be improperly mixed or may be exhausted. Drain and clean the Developer Tank and Dispenser Bottle. Mix new Developer in the Dispenser in the Bottle and refill the Developer Tank.

- ❒ Check the developer replenishment rate. See Page 16, SECTION 2.5. If adjustment is required, follow the procedures on Page 16 -18.

- ❒ Check the Replenishment System. See Procedures 4.3.2. and 4.3.3 on Page 29.

4.4.6 EXCESSIVE CONTRAST

❒ Make the same checks as in Procedure 4.4.5.

4.4.7 INSUFFICIENT DENSITY

❒ Make the same checks as in Procedure 4.4.5.

4.4.8 DENSE FOGGING

❒ The Developer may be contaminated by fixer. Drain and clean the Developer Tank and Dispenser Bottle. Mix new Developer in the Dispenser Bottle and refill the Developer Tank.

❒ Make the same checks as in Procedure 4.4.5.

4.5 Excessive Replenishment

❒ Check the developer and replenishment rate. See Page 16, SECTION 2. If adjustment is required, follow procedures on Pages 16-18.

❒ Check that the processor is level. Incorrect leveling can result in excessive drainage. See Leveling Procedures on Page 8, SECTION 1.

SECTION 5
Maintenance Procedures

5.1 Replacement of Fuses

CAUTION: Make sure that the Processor Power Switch is turned OFF and the power cord is unplugged from the wall outlet before attempting to replace a fuse.

5.1.1. REPLACING THE 1.6A FUSE

The 1.6A Fuse (Part No. CM+ 7.0451.9608.0) is located in the access drawer under the Feed Tray. Using a screw driver, release the latch by turning the slotted screw in the drawer one half turn counter-clockwise.

Pull the drawer out. See Figure 52. The fuse is located at the left side of the drawer as shown in Figure 53.

Remove the defective fuse from the fuse holder and insert a spare fuse, included in your Service Parts Kit. Close the drawer and lock it by turning the screw one half turn clockwise. Plug in the Power Cord and turn the Power Switch ON to resume operation.

5.1.2. REPLACING THE 6.25A FUSE SI-1.

Fuse SI-1 is located in a compartment under the Dryer Assembly. First, remove the Dispenser Bottles, Bottle Holder and the two screws securing the Rear Transport System Cover (See Figure 54). Then remove the Receiver Tray/Cover and the Dryer Assembly Cover. Finally, remove the Rear Transport System Cover (See Figure 55), and lift the Dryer Roller Assembly straight up as shown in Figure 56.

Lift the compartment cover off to gain access to the fuses, as shown in Figure 57. Fuse SI-1 (Part No. CM+7.0451.9705.0) is clearly identified. Remove it and insert the spare which is included in your Service Parts Kit.

Replace the compartment cover and the Dryer Roller Assembly. Make sure that the Dryer Drive Gear is engaged. Replace the Rear Transport Cover, Bottle Holder, Dispenser Bottles,Dryer Assembly Cover and Receiver Tray/Cover. Plug in the Power Cord and turn the Power Switch ON. The Dryer Fans and Heaters should be operative.

5.1.3. REPLACING THE 6.25A FUSE SI-2

If the Replenishment/Circulation Motor or Drive Motor does not operate, Fuse SI-2 is probably blown. Fuse SI-2 is located in the compartment next to Fuse SI-1. See Figure 57. Follow the same procedures as described in 5.1.2. to replace the blown Fuse SI-2. When the Power Switch is turned ON, the motors should start.

5.1.4. REPLACING THE 400MA FUSE SI-3

Fuse SI-3 protects the low-voltage Transformer and power source for the microprocessor and control circuit boards. This fuse should seldom ever require replacement. If it is blown, it can be replaced as in 5.1.2, however, this may indicate a serious electrical problem. **Call The Technical Hotline.**

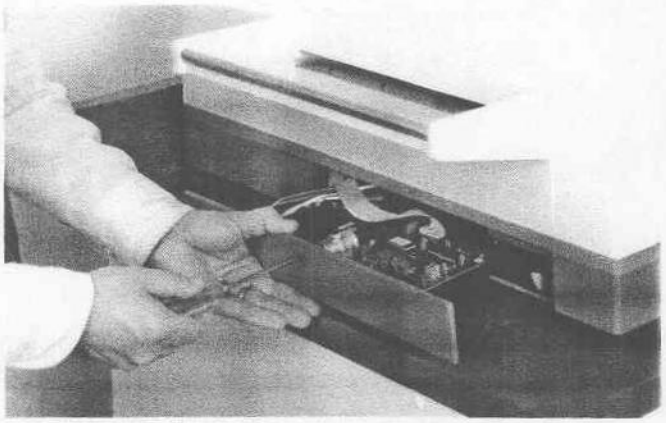


Figure 52. Open Access Drawer Under Feed Tray

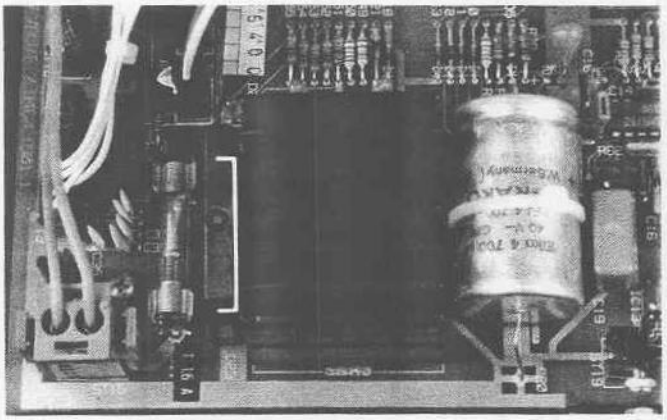


Figure 53. Location of 1.6A Fuse

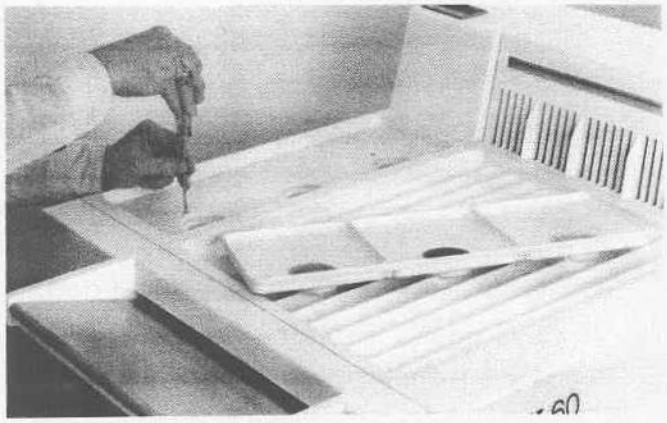


Figure 54. Unscrew Rear Transport System Cover

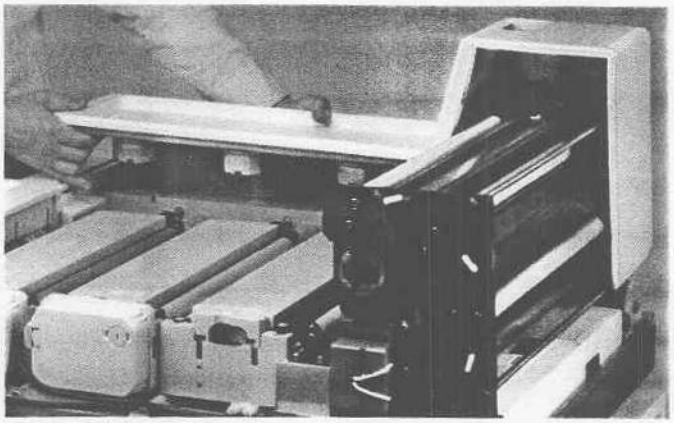


Figure 55. Remove Rear Transport System Cover

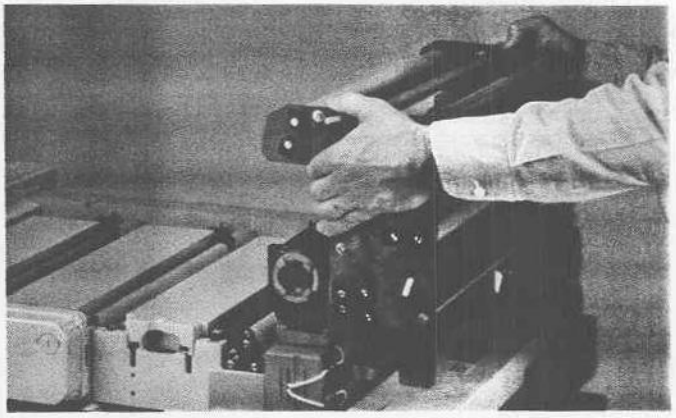


Figure 56. Remove Dryer Roller Assembly

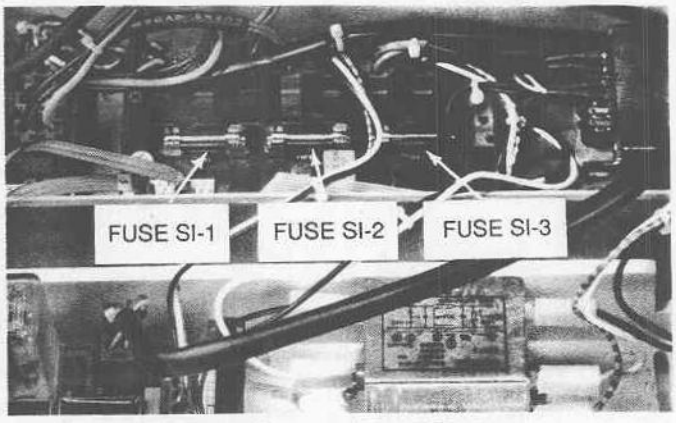


Figure 57. Remove Compartment Cover

5.2. Replacement of Defective Gears

CAUTION: When maintenance procedures require the handling of parts that are in contact with chemistry, rubber gloves and suitable protection should be worn. Remove the Dispenser Bottle(s), drain the Tank(s) and then rinse the parts in water to remove all chemicals. The parts may now be safely handled without rubber gloves.

GENERAL PROCEDURE

After locating a defective gear, removal and replacement follows this general procedure.

1. Remove the retainer Snap Ring (Part No. CM+ 7.9402.1129.0) by prying it off with a screw driver.
2. Withdraw the gear slowly from its shaft, so as not to lose any cylinder pins which may hold the gear to the shaft. Cylinder Pins (Part No. CM+6.0200.449.00) can fall out of the the drive shaft when the gear is removed.
3. Replace the gear and Snap Ring in reverse order. If a Snap Ring has been damaged, or a Shaft Pin is lost, replace it with a new one from your Service Parts Kit.

5.2.1. REPLACING A TANK COVER DRIVE GEAR

Remove the Snap Ring (Part No. CM+ 7.9402.1129.0) as shown in Figure 58.

Remove the Fastener and the Upper Rack Drive Gear as shown in Figure 59.

Replace Drive Gear.

Check the assembly by turning the Drive Gear with your finger. If Drive Roller turns smoothly, the Tank Cover may be replaced and operation resumed.

5.2.2 REPLACING A REPLENISHMENT PUMP GEAR

Remove the Replenishment Pump following the procedures in SECTION 3, Page 25, Figure 41.

Pry off the Snap Ring (Part No. CM+ 7.9402.1129.0) that holds the Pump Gear onto the Pump Shaft as shown in Figure 60.

Remove the washers (there may be several above and below the Pump Gear)) and the Pump Gear (Part No. CM+7.9432.2854.1) from the shaft. The "D" shape of the shaft matches the shape of the hole in the Pump Gear to prevent it from turning independently. See Figure 61.

Replace the Pump Gear and washers (use the same number of washers in the same position) on the shaft and fasten with a Snap Ring included in your Service Parts Kit.

Re-install the Replenishment Pump into the Tank.

NOTE: *The the Pump Gear can be raised or lowered on the shaft by adjusting the number of the washers below the Pump Gear. Unless specifically required, the number and position of the washers should not be changed. The washers my be reused as they are not subject to wear.*

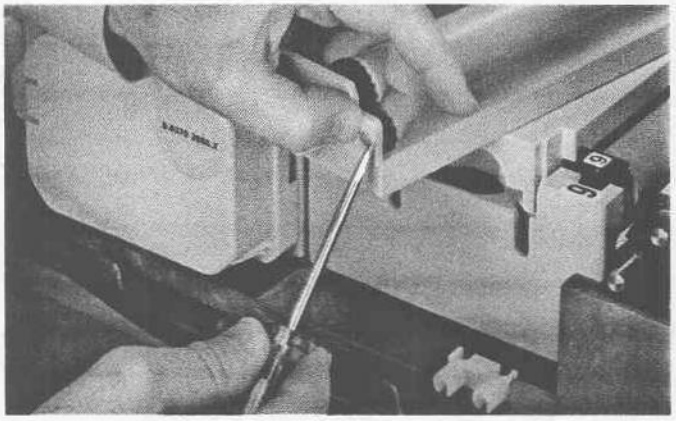


Figure 58. Remove Snap Ring

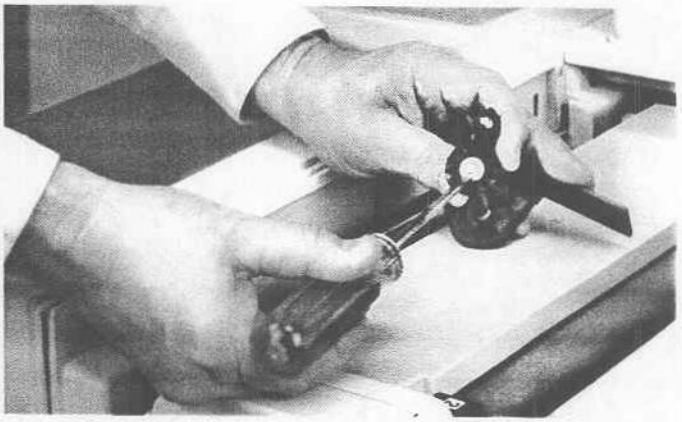


Figure 60. Removing Snap Ring on Pump Gear

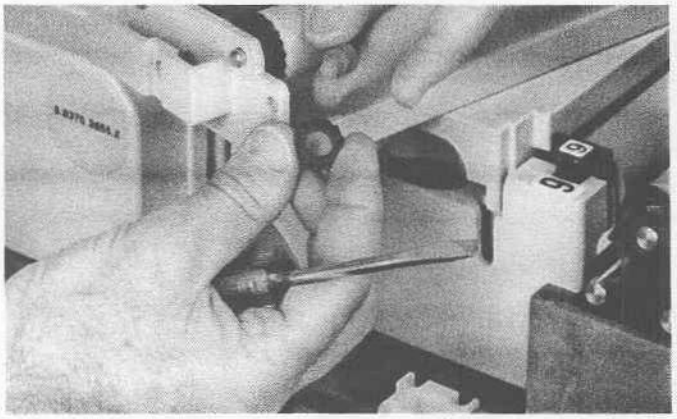


Figure 59. Remove Fastener and Drive Gear

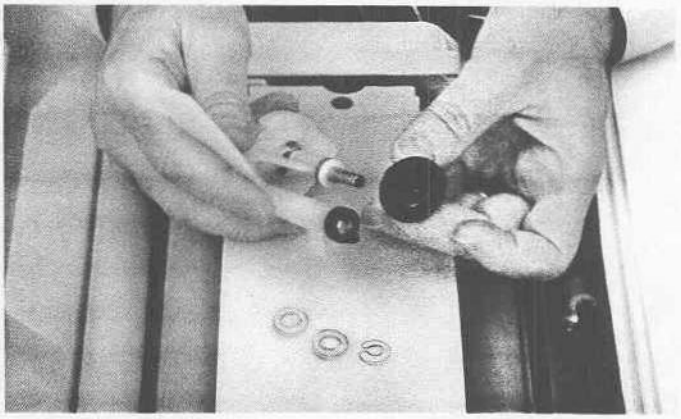


Figure 61. Removing Washers and Pump Gear

5.2.3. REPLACING THE SQUEEGEE DRIVE AND SQUEEGEE TRANSPORT GEARS

CAUTION: If the processor has been in operation the Infrared Dryer and Fans may still be hot, so be careful not to touch them. Wait until they have cooled off before continuing with this procedure.

NOTE: *It is recommended that the Wash-Water Tank be removed to provide easier access to the Squeegee Drive Gear. This will also require the removal of the Water Dispenser Bottle. Drain the Wash-Water Tank according to normal procedures and remove the Tank. Rubber gloves are not required.*

Remove the Receiver Tray/Cover, Dryer Assembly Cove. Drain and remove the Wash Water Tank. Raise the Squeegee Roller Assembly slightly and lift it out of the processor as shown in Figure 62.

Cover the exposed drain hole and the space between the processor sink and the dryer frame with tape to prevent small parts from falling into these areas.

Remove and replace Snap Ring (Part No. CM+7.9402.1129.0) and the red Squeegee Drive Gear (Part No. CM+7.8187.6655.1) as shown in Figure 63. Parts are included in your Service Parts Kit.

Check the two Squeegee Transport Gears (Part No. CM+7.8187.6863) and replace, if necessary, with spares from your Service Parts Kit. See Figure 64.

Remove the tape, and replace the Squeegee Roller Assembly, being certain to engage the Drive Gear. Replace the Wash-Water Tank and close the Drain Valve. Replace the Tank Cover, Receiver Tray/Cover and the Water Dispenser Bottle. Resume normal operation.

5.2.4. REPLACING THE DRYER TRANSPORT DRIVE GEAR

Remove the Receiver Tray/Cover, Dryer Assembly Cover, Chemical Bottles, Bottle Tray and the two screws fastening the Rear Transport System Cover as shown earlier in Figure 54.

Remove the Rear Transport System Cover, the Dryer Assembly and the compartment cover as shown in Figures 55, 56 & 57.

Remove Snap Ring (Part No. CM+ 7.9402.1129.0) and the Dryer Transport Drive Gear (Part No. CM+7.9462.1218.0) as shown in Figure 65.

Replace the compartment cover, Dryer Assembly, and Rear Transport System Cover. Insert and fasten the two screws to secure the Rear Transport System Cover. Replace the Bottle Tray, Dispenser Bottles, Dryer Assembly Cover, and Receiver Tray/Cover. Resume normal operation.

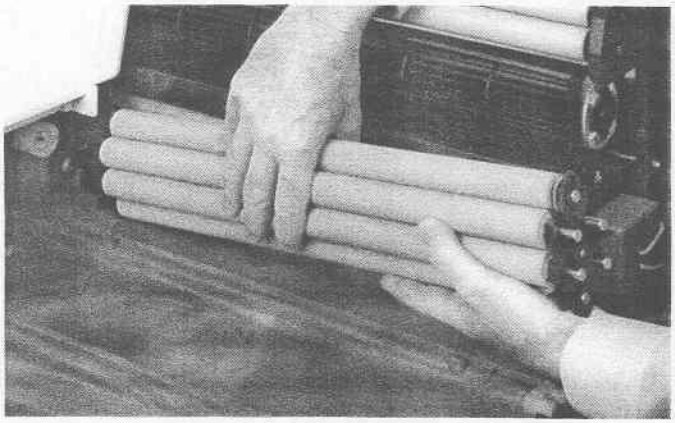


Figure 62. Removing Squeegee Roller Assembly

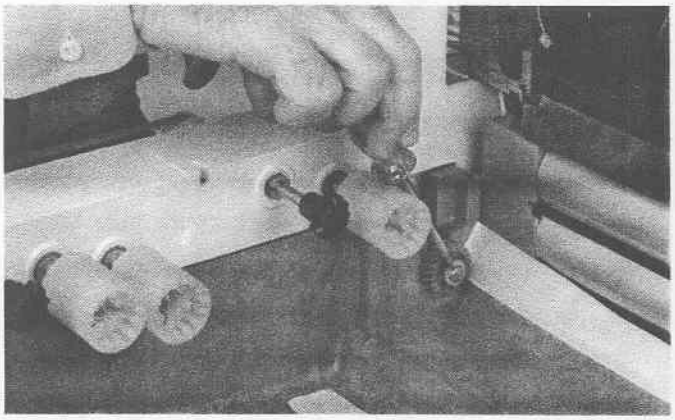


Figure 63. Replacing Squeegee Drive Gear

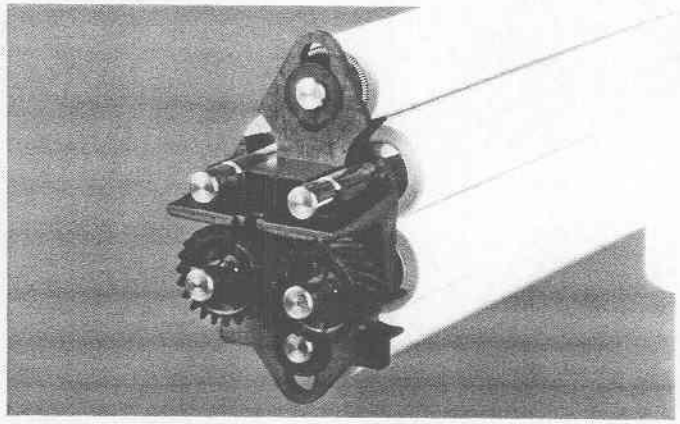


Figure 64. Replace Squeegee Transport Gear(s)

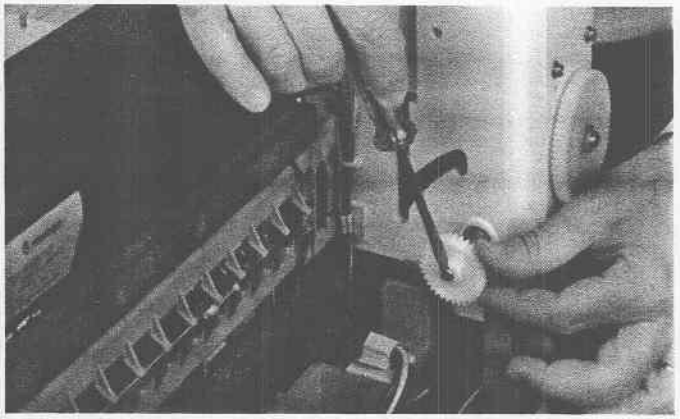


Figure 65. Replace Dryer Transport Drive Gear

5.3 Maintenance of the Main Drive Assembly

NOTE: *If the processor is not situated so that you have full access to the rear section, it will have to be rotated 180°. This may require draining the Tanks and disconnecting the Drain Hoses and removing the Power Cord from the wall outlet. If you have full access to the rear section you may skip the drainage procedure.*

A series of exploded views with part numbers of the component parts of the CURIX 60 Processor are provided in the Appendix of this Manual. Included in this series are illustrations of the Main Drive Train and the High-Speed Pump Drive Train, which show the relationship of the Drive Gears and other components.

Several replaceable parts are located in the Main Drive Assembly at the rear of the processor under the Rear Transport Assembly Cover. It is not likely that you will have to replace parts in the Main Drive Assembly, however, if these parts become defective, they are easily replaced. If you have difficulty with this type of maintenance, **you may call The Technical Hotline**.

Turn the Power Switch OFF. Disconnect Power Cord.

Remove the Dispenser Bottles, Receiver Tray/Cover and Tank Covers. Pull the Tanks out partially and drain them.

Rotate the processor 180° to access to the rear section.

Remove the Bottle Holder and the two screws securing the Rear Transport System Cover. (See Figure 54)

Remove the Rear Transport System Cover. (See Figure 55)

5.3.1 REPLACING A WORM DRIVE GEAR

If film will not transport through any of the the rollers, one source of the problem may be the Dryer Transport Drive Gears. Alternatively, the problem may be one of the the components that cause the Drive Gear to rotate; the Dryer Worm Drive Gear, the Main Drive Shaft or the Drive Motor.

A Worm Drive Gear is driven by a Worm Drive on the Main Drive Shaft as shown in Figure 66.

A Worm Drive Gear can also be affected by a worn Shaft Bearing (Part No. CM+7.9462. 1253.3), which can be more easily identified on the exploded view in the Appendix A (Page 50), by the Worm Drive, the Main Drive Gears attached to the Drive Motor, or the Drive Motor.

Failure of these parts is unlikely, nevertheless, a spare Dryer Worm Drive Gear (Part No. CM+7.9462.1214.0) and spare Shaft Bearings (Part No. CM+7.0462.1253.30 are included in your Service Parts Kit.

Replace a Worm Drive Gear, by removing the Snap Ring and sliding the Drive Gear off its shaft as shown in Figure 67.

The Shaft Pin is removable so be careful not to drop it.
Reverse the procedure to replace the Drive Gear.

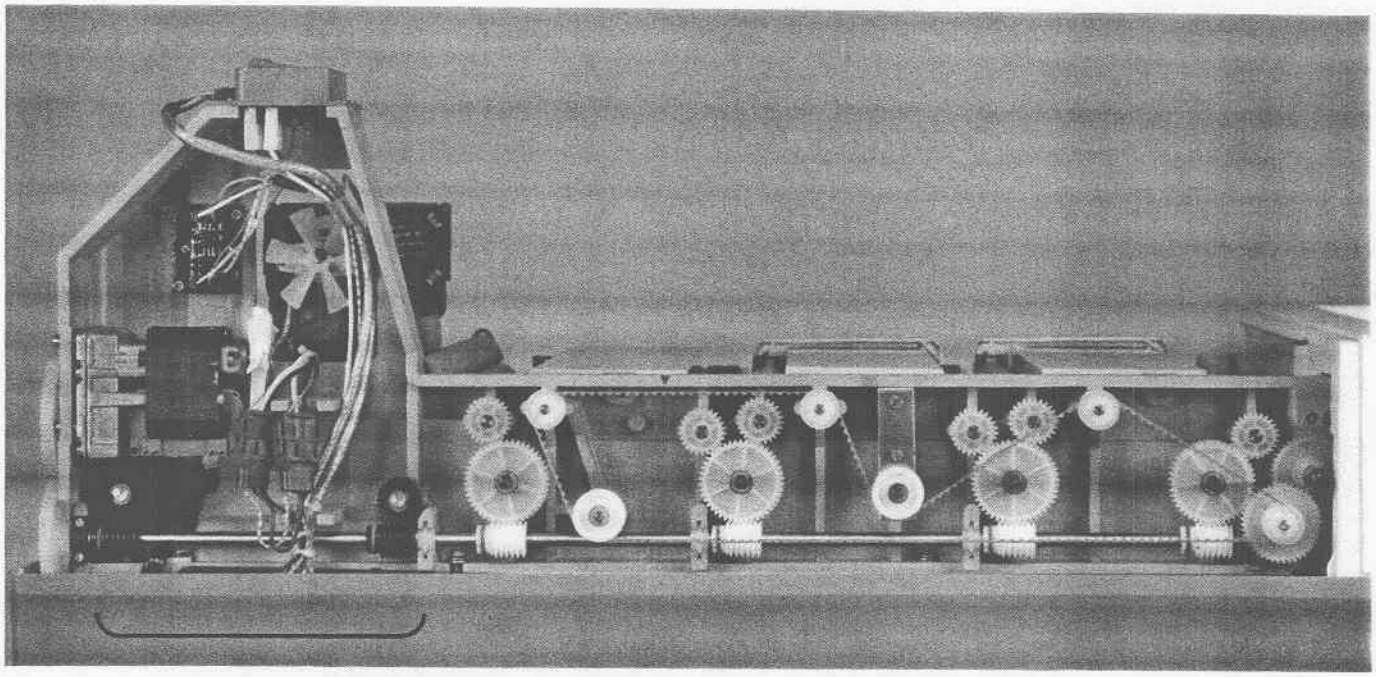


Figure 66. Locating the Worm Drive Gear System

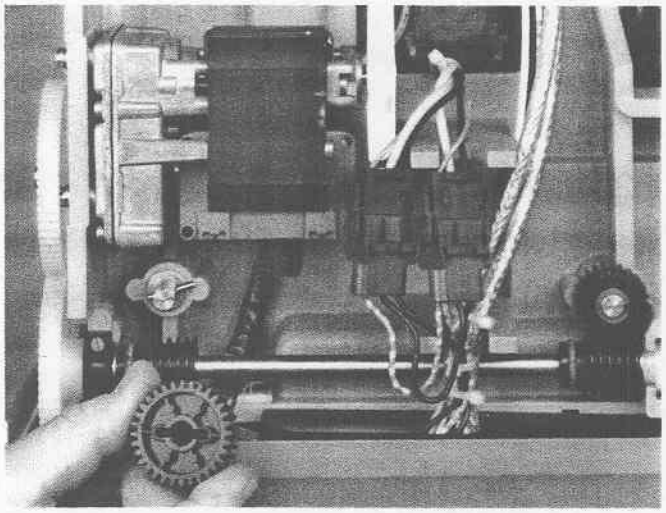


Figure 67. Replacing the Worm Drive Gear

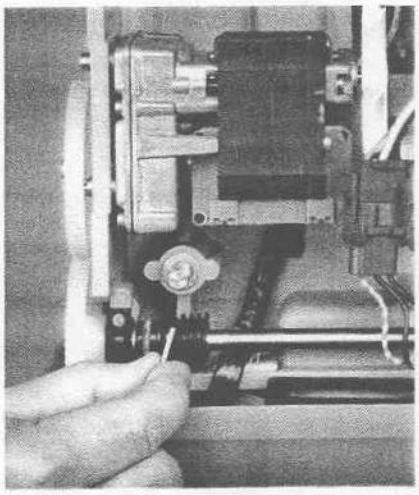


Figure 68. Remove Drive Shaft Pin

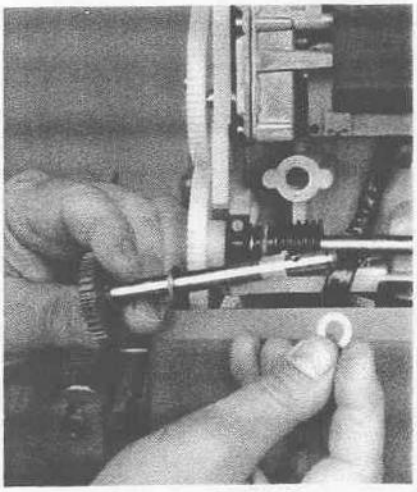


Figure 69. Remove Drive Shaft

Figure 70. Detail of Shaft, Bearings and Spacer

5.3.2 REPLACING A DRIVE SHAFT BEARING

The Shaft Bearings in the CURIX 60 Processor are designed to provide trouble-free performance. However, excessive wear on certain bearings may cause gear misalignment.

The Shaft Bearings that are related to the Main Drive Shaft are identified on the exploded view in the Appendix A (Page 50).

The replacement procedure for all Shaft Bearings is essentially the same. Proceed as follows for removal of the Worm Gear Drive Shaft Bearings:

Remove Snap Ring, Worm Drive Gear, Shaft Pin and Spacers on the Worm Drive Shaft side of the processor. Pull the shaft out from opposite side. Transport Drive Gear Shafts are removed in the direction of the chemical tanks.

Replace Shaft Bearings (Part No. CM+6.9462.1253.3) from front and rear sides of the shaft channel. See Figures 68, 69 & 70.

Re-insert the Gear Shaft through the bearings and replace the Spacer. Replace the Shaft Pin and the Worm Drive Gear and secure the gear with a Snap Ring. Carefully align the Worm Drive Gear with the Worm Drive on the Main Shaft. Refer back to Figure 66 to see the proper position of gear and shaft.

Replace all parts except for the Rear Transport System Cover.

After replacement of the parts, and while the Rear Transport System Cover is still off, plug in the Power Cord while holding the Interlock Switch down, turn the Power Switch ON. This will permit you to check the operation of the Main Drive and the High Speed Replenishment Drive. If O.K., turn the Power Switch OFF, close the Rear Cover, replace the two retaining screws, and reposition the processor to its proper operating position. Follow the start-up procedure to resume operation.

5.3.3 REPLACING THE REPLENISHMENT MOTOR DRIVE BELT

Locate the Replenishment Motor Gear Assembly. See Figure 71.

The Motor Drive Belt is a toothed belt that engages sprockets in the Motor Drive Gear and a larger of two Transfer Gears. However, the longer High-Speed Replenishment Pump Drive Belt must first be removed from the smaller Transfer Gear before the Motor Drive Belt can be replaced.

Figure 72 is a diagram of the Drive Belt Assembly.

Remove the Keeper (Part No. CM+7.9432.3025.0) from the smaller Transfer Gear Shaft and remove the plastic retaining disc as shown in Figure 73.

Disengage the longer Drive Belt from the sprockets of the small Transfer Gear. Disengage the Motor Drive Belt from the larger Transfer Gear as shown in figure 73.

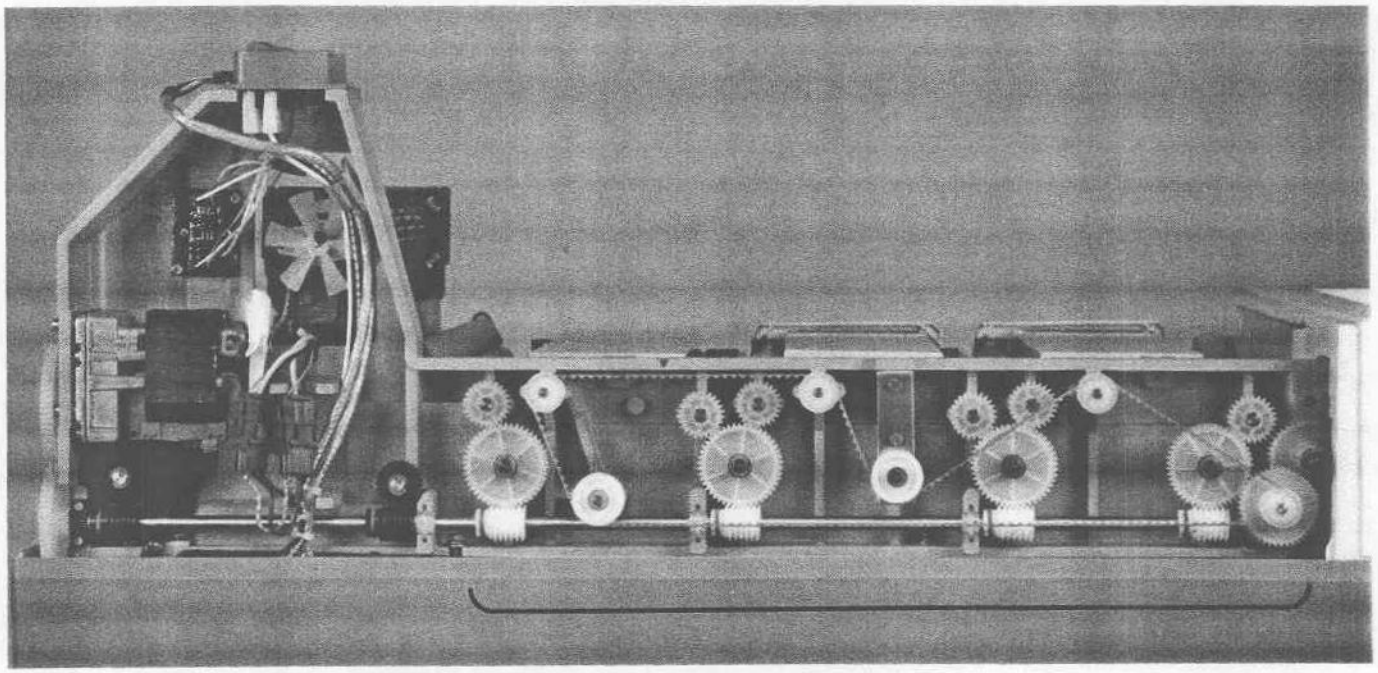


Figure 71. View of Replenishment Gear Assembly

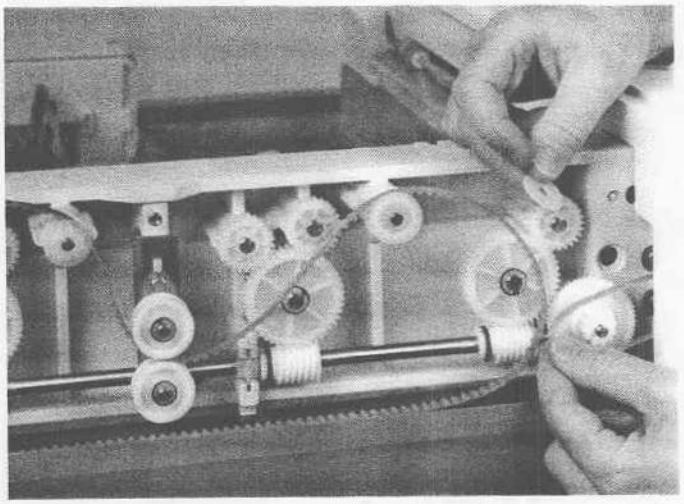


Figure 72. Drive Belt Assembly Diagram

Figure 73. Remove Keeper and Retaining Disc

A spare Motor Drive Belt (Part No. CM+7.0389.6536.0) is included in your Service Parts Kit. Slide the spare Drive Belt first onto the Motor Drive Gear (on the Motor Drive Shaft), and then onto the larger Transfer Gear.

Slide the longer belt onto the smaller Transfer Gear, making certain that it is properly engaged with the three Pump Drives.

Replace the plastic retaining disc and Keeper onto the Transfer Gear Shaft.

Before replacing the Rear Transport System Cover, turn the Power Switch ON to check for proper operation of the Drive Belts. Depress Interlock Switch to start processor operation. If operation is satisfactory, release the Interlock Switch and turn the Power Switch OFF.

Replace the Rear Transport System Cover and secure it with two screws. Replace the Dryer Assembly Cover and the Receiver Tray/Cover. Resume normal operation.

5.3.4. REPLACING THE HIGH-SPEED PUMP DRIVE BELT

A spare for this part is not included in your Service Parts Kit. It this part is defective it must be ordered. **Call The Technical Hotline.**

5.4 Replacement of Roller Springs

5.4.1 REPLACING A TRANSPORT ROLLER SPRING

Remove the Roller Spring (Part No. CM+7.9432.2109.1) by sliding it over the end of the bearings on the Transport Roller Assembly. To replace the Roller Spring, reverse the procedure, taking care not to overexpand the spring while fitting it in place. Be sure that the spring is properly relocated in the bearing grooves. See Figure 74.

5.4.2. REPLACING A SQUEEGEE ROLLER SPRING

Squeegee Roller Springs are not likely to become defective as the Squeegee Roller Assembly is normally not taken apart. Therefore, a spare Squeegee Roller Spring (Part No. CM+7.8187.6853.0) is not included in your Service Parts Kit and must be ordered separately. The parts and part numbers of the Squeegee Roller Assembly are shown in Appendix A, Page 55. **To order, call The Technical Hotline.**

However, if you have to replace a Squeegee Roller Spring, proceed as follows:

Remove the top and bottom retainers (black) and slide one end plate off the roller shaft ends. While holding the roller cluster together firmly to prevent their separation, remove the defective Squeegee Roller Spring and replace with the spare. See Figure 75.

Reposition the end plates and replace the retainers.

Repeat procedure for the other end if necessary.

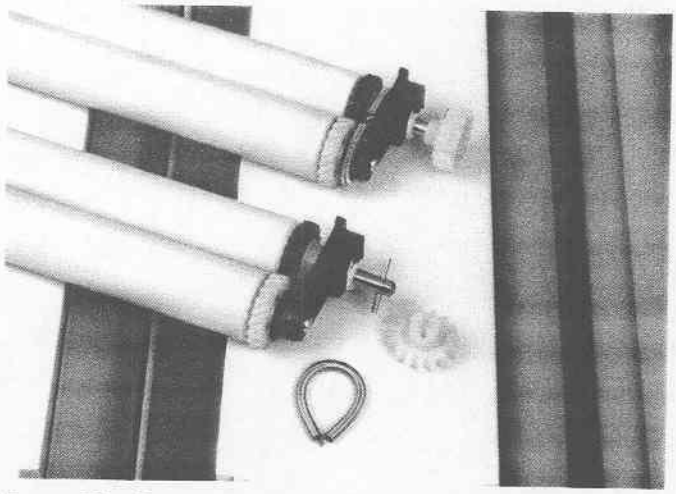


Figure 74. Replacing a Transport Roller Spring

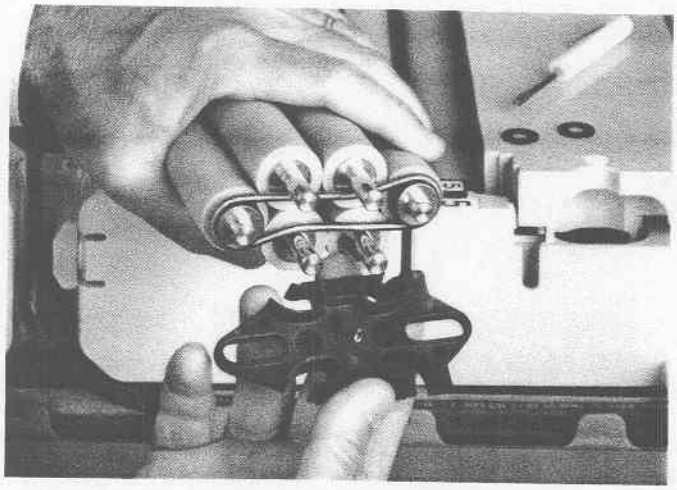


Figure 75. Replacing a Squeegee Roller Spring

5.5 Replacement of Dryer Guide Plate Keepers

There are three Guide Plates in the Dryer Assembly. Since disassembly of the Dryer is not part of the normal cleaning procedure it is unlikely that these parts will have to be removed and replaced. However, lengthwise scratching of the film may indicate loose or missing Guide Plate Keepers.

If needed, spare Keepers (Part No. CM+7.8185.6023.1) are included in your Service Parts Kit. Slide the Keeper into a Guide Plate slot in either of the Dryer Assembly endplates to secure the Guide Plate as shown in Figure 76.

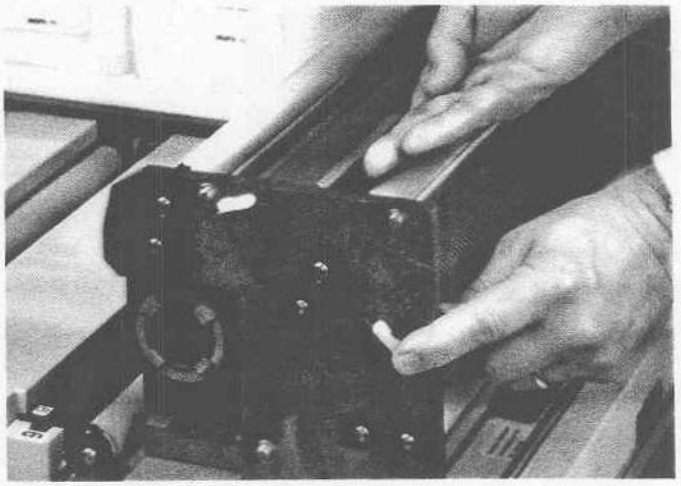


Figure 76. Replacing a Dryer Guide Plate Keeper

Appendix A – Exploded Views

Title	Figure No.	Page
Panels, Film Scanning, Bottles, Valves, Hose Adapter, Interlock Switch, Type 9462/100/200	Figure 1	48
Control Card under Feed Table, Power Supply under Dryer Assembly, Type 9462/100/120	Figure 2	49
Gear Box, Transport Roller Drive, Controls, Type 9462/100/120	Figure 3	50
Gear Box, Pump Drive, Type 9462/100/120/140	Figure 4	51
Tank, Developer, Type 9462/100/120	Figure 5	52
Tanks, Fixer and Water, Type 9462/100/120	Figure 6	53
Guide Unit, Left Side, Type 9462/100/120	Figure 7	54
Guide Unit , Right Side, Type 9462/100/120	Figure 8	55
Dryer, Infrared Radiator, Type 9462/100/120	Figure 9	56

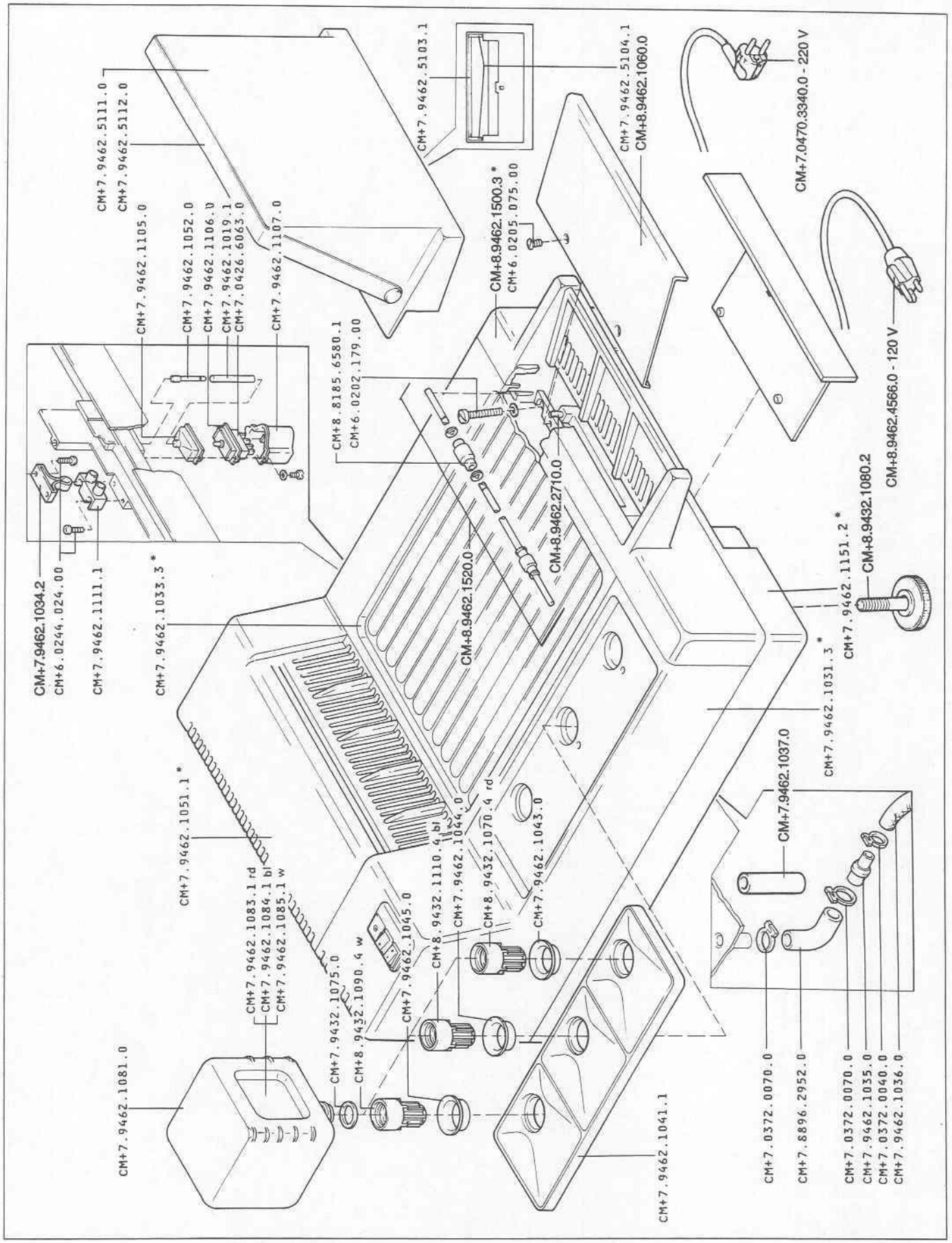


Figure 1 – Panels, Film Scanning, Bottles, Valves, Hose Adapter, Interlock Switch, Type 9462/100/200

53

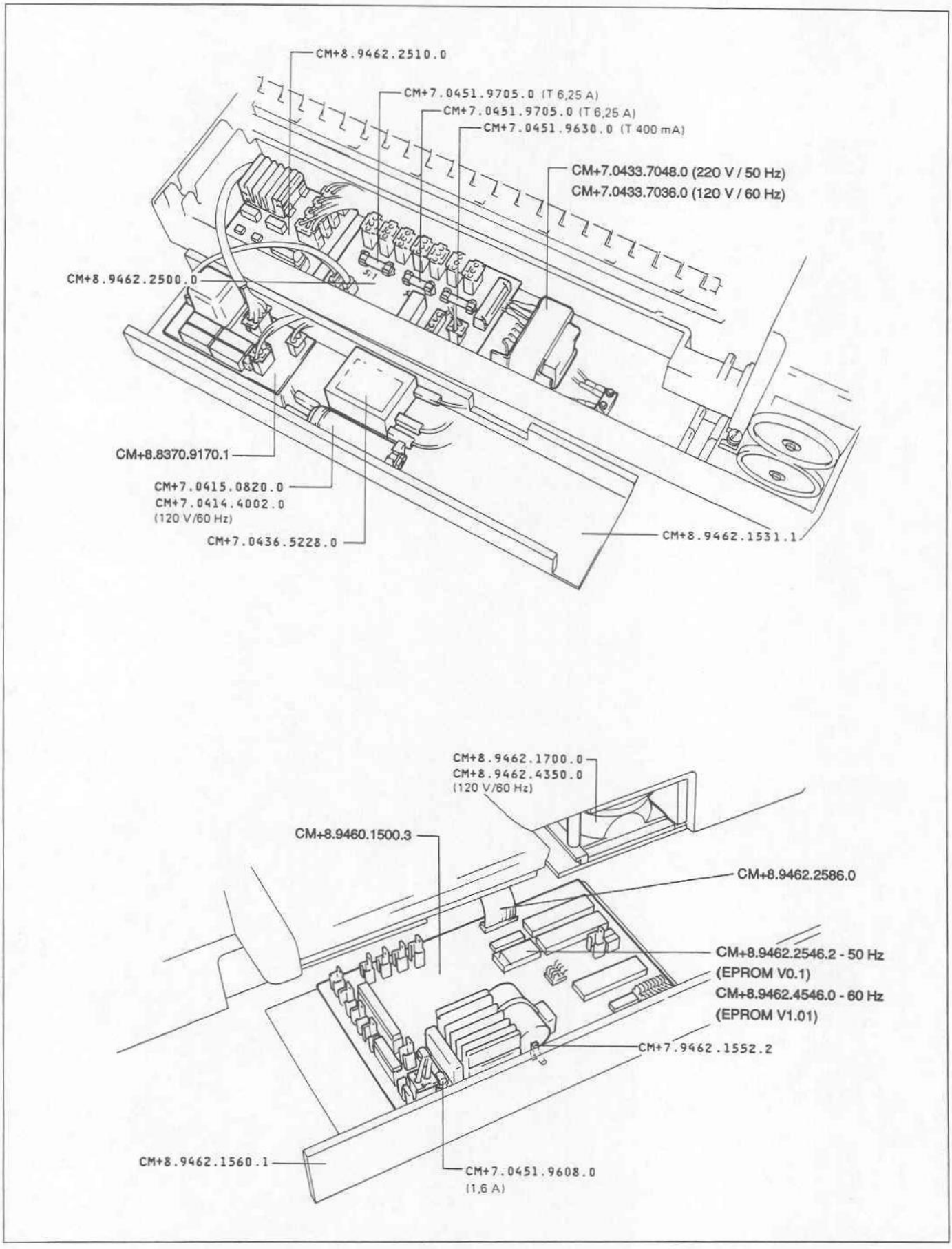


Figure 2 – Control Card under Feed Table, Power Supply under Dryer Assembly, Type 9462/100/120

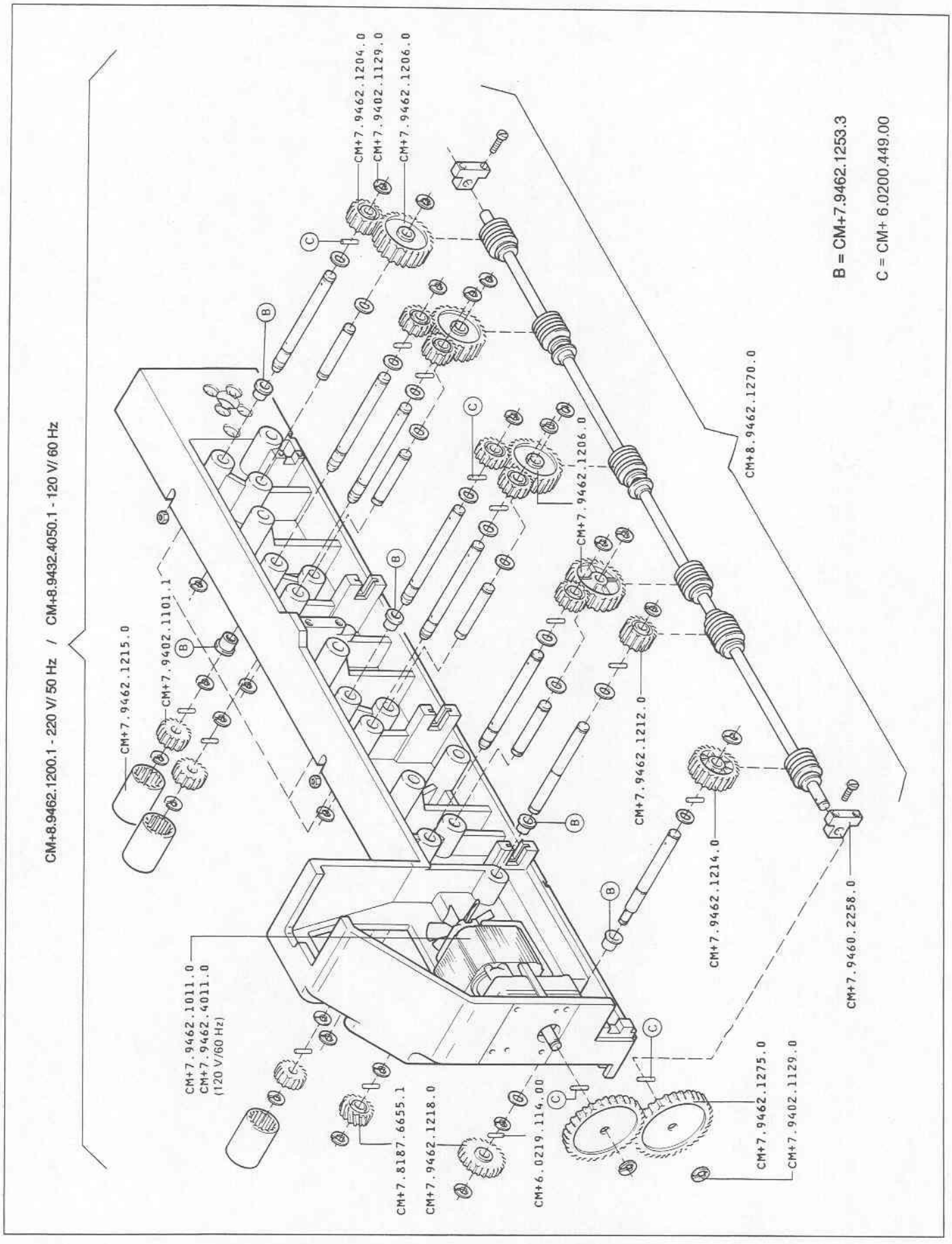


Figure 3 – Gear Box, Transport Roller Drive, Controls Type 9462/100/120

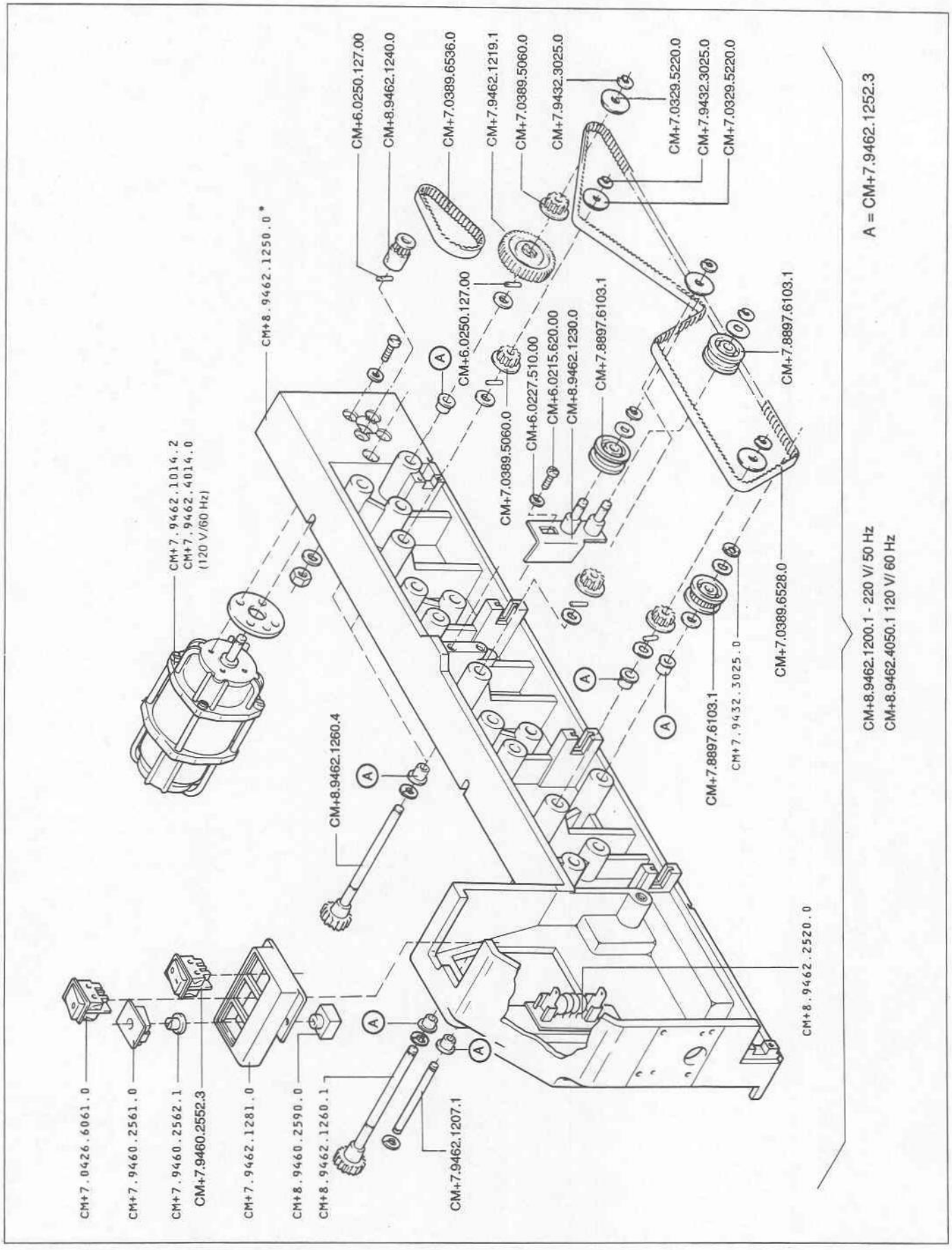


Figure 4 – Gear Box, Pump Drive, Type 9462/100/120/140

56

wrng Part Numbers See Copy of ES picture

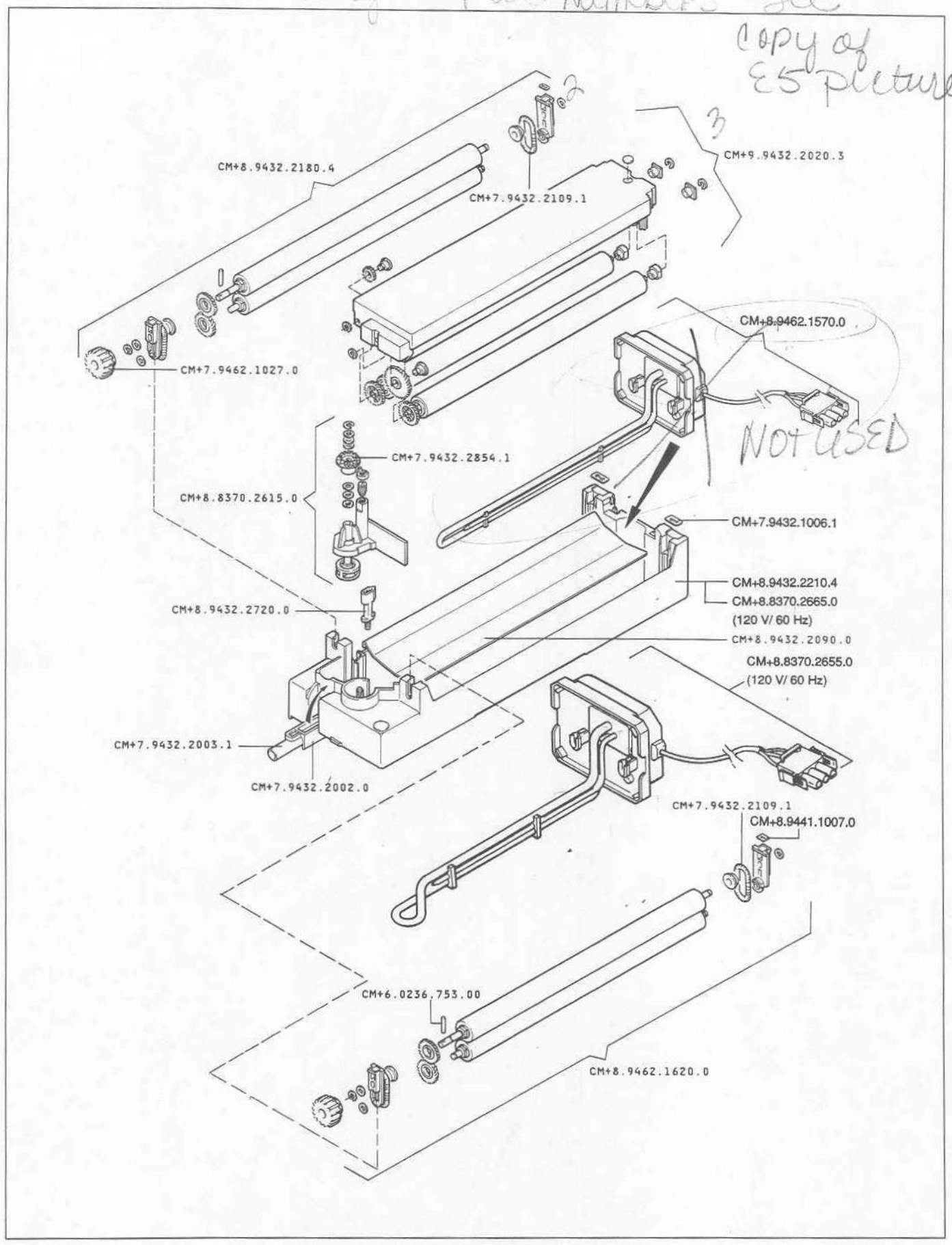


Figure 5 –Tank, Developer, Type 9462/100/120

57

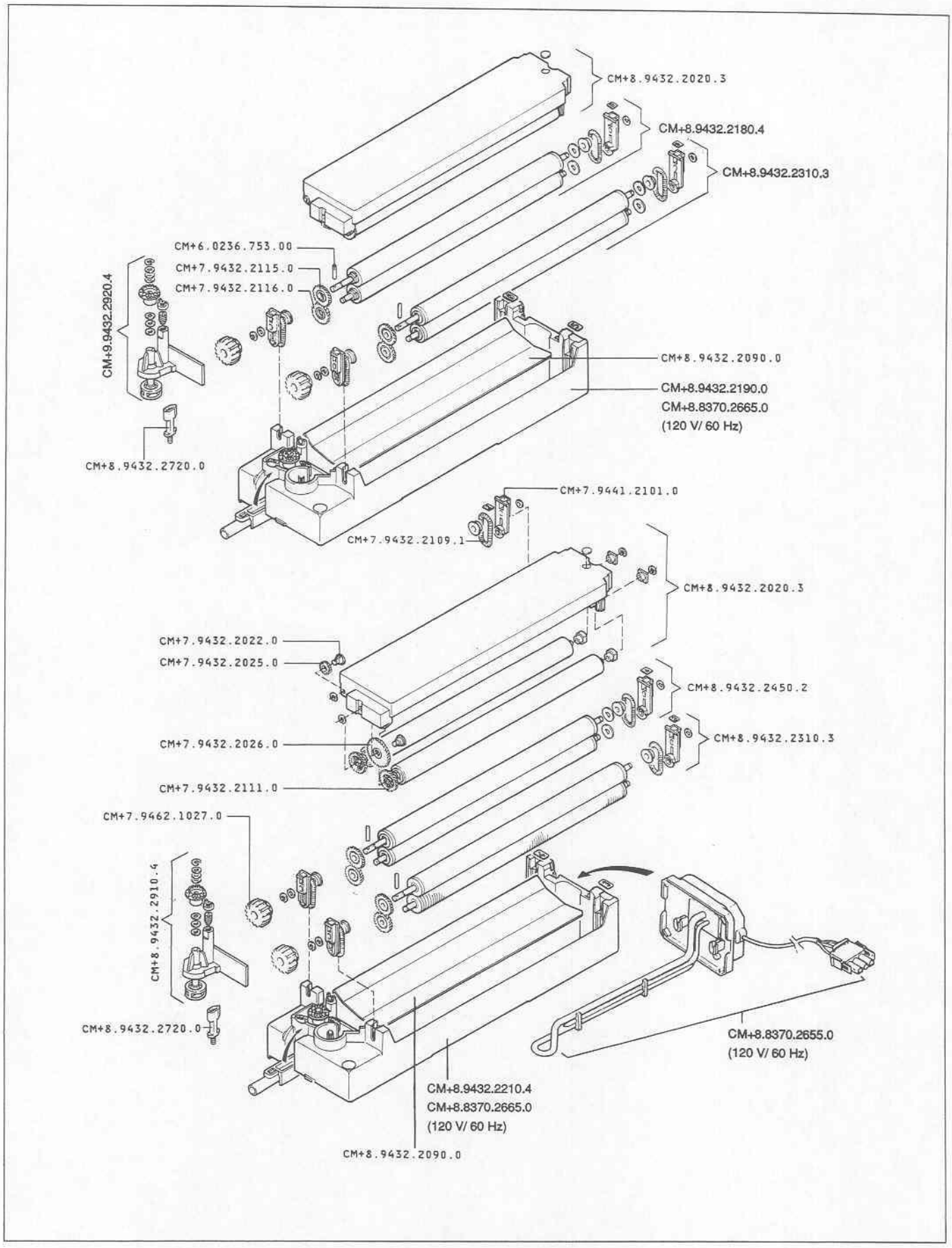


Figure 6 – Tanks, Fixer and Water, Type 9462/100/120

58

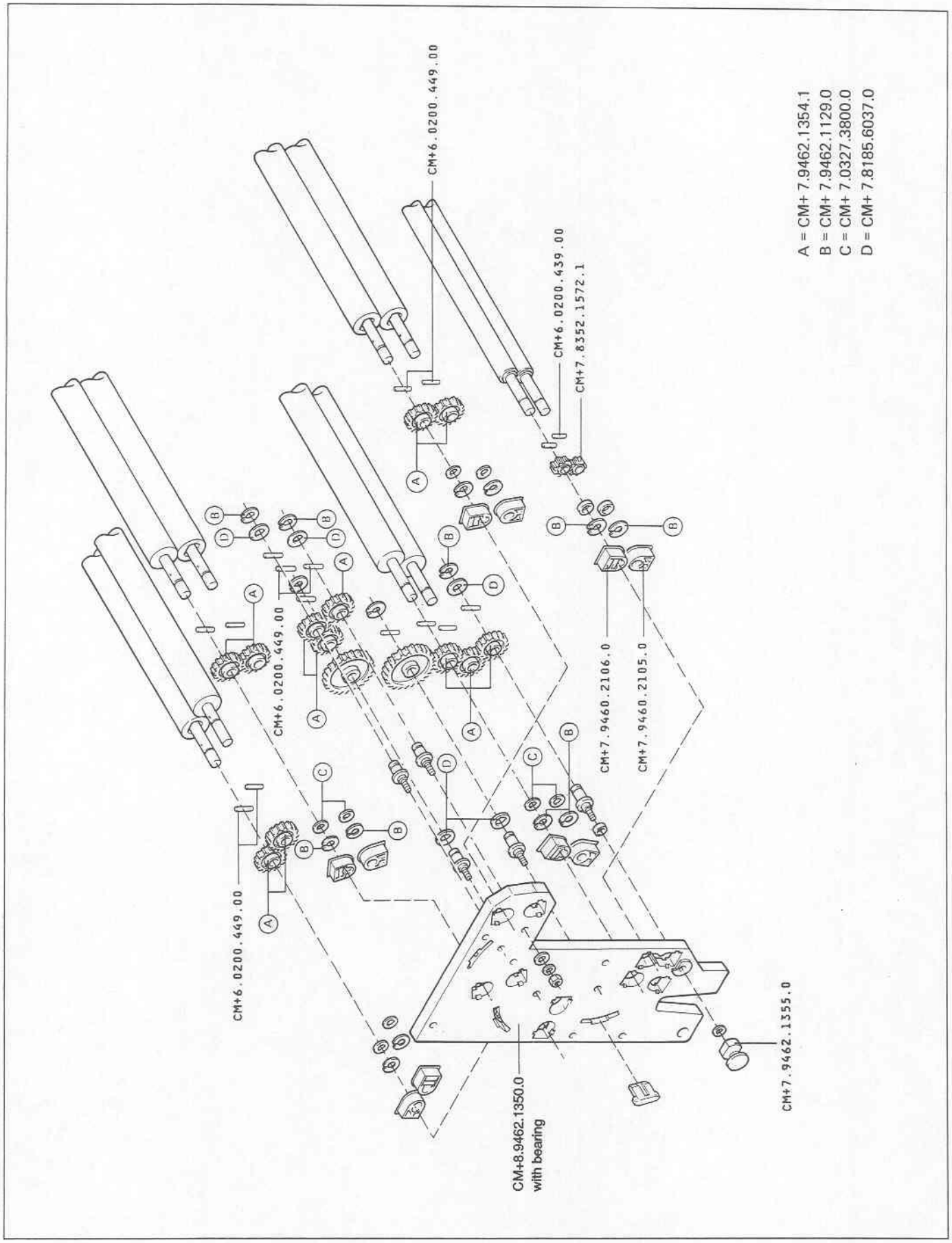


Figure 7 – Guide Unit, Left Side, Type 9462/100/120

59

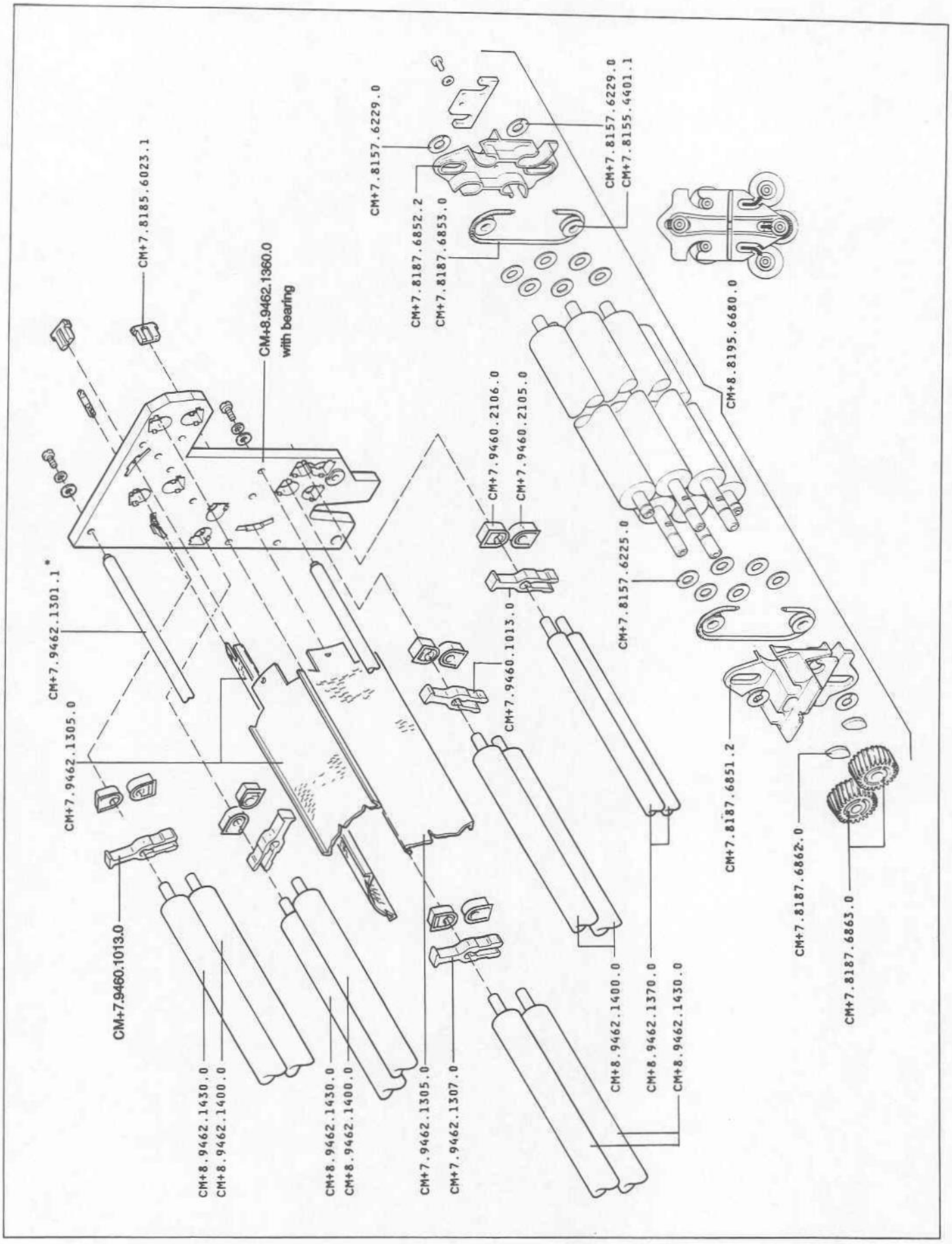


Figure 8 – Guide Unit, Right Side, Type 9462/100/120

60

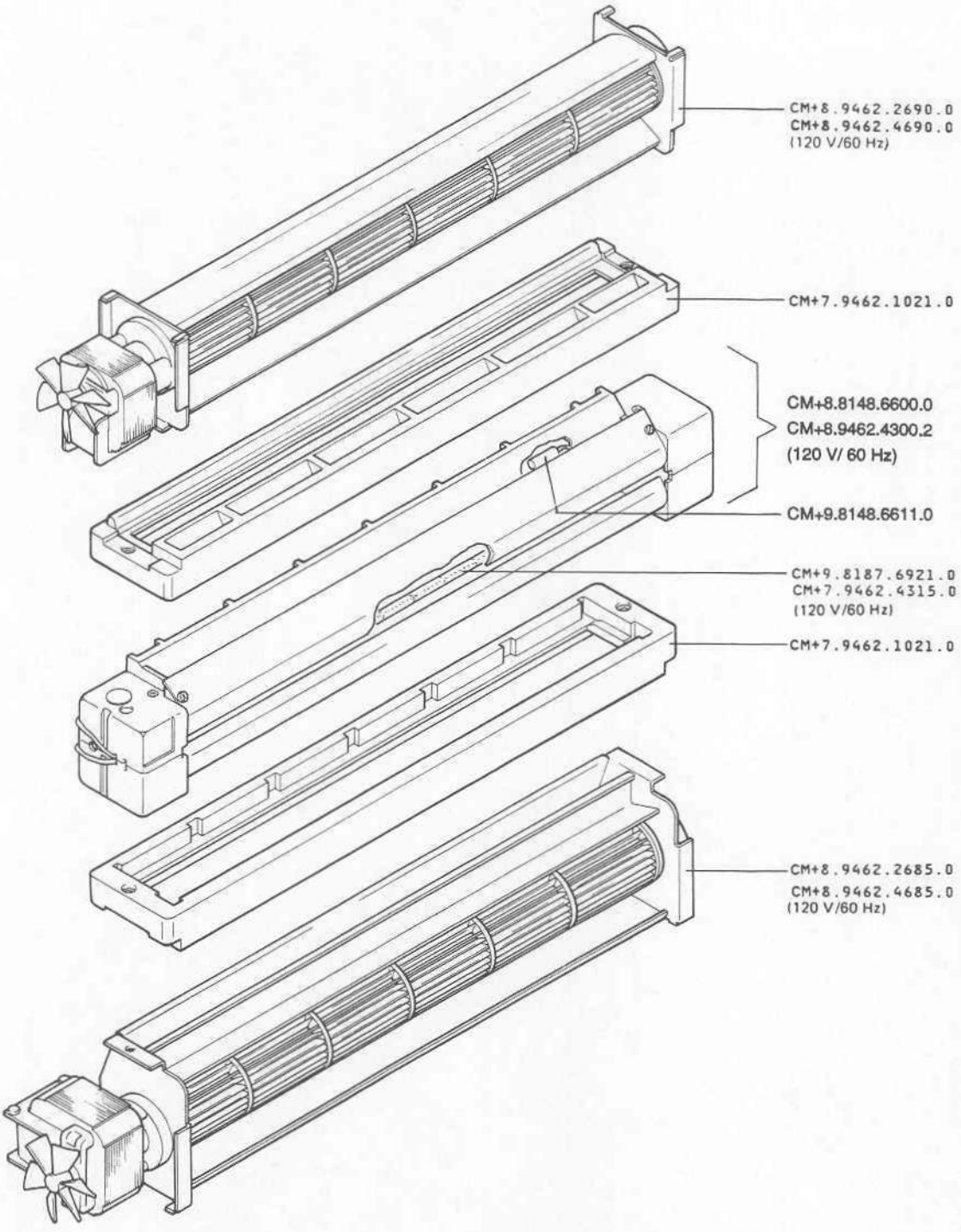


Figure 9. Dryer, Infrared Radiator, Type 9462/100/120

Appendix B. – Parts List

Figure No.	Part No.	Description
1	CM+6.0202.179.00	Screw
1	CM+6.0244.024.00	Screw, Phillips Head
1	CM+7.0372.0040.0	Hose Clamp
1	CM+7.0372.0070.0	Hose Clamp, Plastic
1	CM+7.0426.6063.0	Cover, Switch
1	CM+7.8896.2952.0	Elbow, Rubber
1	CM+8.9432.1070.4	Valve, Red (Developer)
1	CM+7.9432.1075.0	Seal
1	CM+8.9432.1080.2	Foot, Leveling
1	CM+8.9432.1090.4	Valve, White (Water)
1	CM+8.9432.1110.4	Valve, Blue (Fixer)
1	CM+7.9462.1019.1	Measuring Pin, Interlock Switch
1	CM+7.9462.1031.3	Cover, Rear Transport Drive
1	CM+7.9462.1033.3	Cover, Receiver/Tray
1	CM+7.9462.1034.2	Cover, Snap Lock Spring
1	CM+7.9462.1035.0	Hose Reducer
1	CM+7.9462.1036.0	Hose, Drain
1	CM+7.9462.1037.0	Hose, Adaptor Accessory
1	CM+7.9462.1041.1	Holder, Bottle
1	CM+7.9462.1043.0	Ring, Adapter (Red)
1	CM+7.9462.1044.0	Ring, Adapter (Blue)
1	CM+7.9462.1045.0	Ring, Adapter (Pearl Grey)
1	CM+7.9462.1051.1	Cover, Dryer
1	CM+7.9462.1052.0	Pin, Interlock Switch
1	CM+8.9462.1060.0	Plate, Feed Table
1	CM+7.9462.1081.0	Bottle, Without Label
1	CM+7.9462.1083.1	Bottle Label,Red (Developer)
1	CM+7.9462.1084.1	Bottle Label, Blue (Fixer)
1	CM+7.9462.1085.1	Bottle Label, White (Water)
1	CM+7.9462.1105.0	Protecting Cap, Interlock Switch
1	CM+7.9462.1106.0	Holder, Interlock Switch
1	CM+7.9462.1007.0	Cover, Interlock Switch Assembly
1	CM+7.9462.1111.1	Case, Snap Lock Holder
1	CM+7.9462.1151.2	Chassis, Processor
1	CM+8.9462.1520.0	Shaft, Film Scanner/Detector
1	CM+8.9462.2710.0	Wiring, Film Scanner/Detector
1	CM+7.9462.5103.1	Felt Strip, Light Trap
1	CM+7.9462.5104.1	Felt Strip, Light Trap
1	CM+7.9462.5111.0	Casing, Light Trap
1	CM+7.9462.5112.0	Cover, Light Trap
1	CM+8.9462.4566.0	Cable, Power (120 VAC/60 Hz)
1	CM+8.8185.6580.0	Magnet Roller, Detector
1	CM+8.9462.1500.3	Feed Tray Assembly
1	CM+6.0205.075.00	Screw, Feed Tray Plate

Figure No.	Part No.	Description
2	CM+7.0436.5228.0	Filter, Power Supply
2	CM+7.0451.9608.0	Fuse, 1.6 A, Power Supply
2	CM+7.0451.9630.0	Fuse, 400 mA, Power Supply
2	CM+7.0451.9705.0	Fuse, 6.25 A, Power Supply
2	CM+8.8370.9170.1	Relay Board, Power Supply
2	CM+8.9460.1500.3	Control Board,18.GS1
2	CM+7.9462.1531.1	Cover, Power Supply
2	CM+7.9462.1552.2	Locking Bar, Drawer
2	CM+7.9462.1560.1	Drawer, Control Card
2	CM+7.9462.2500.0	Circuit Board, Distributor 1.GS
2	CM+7.9462.2510.1	Circuit Board, Triac 11.GS1
2	CM+8.9462.2586.0	Cable, Fl 18XAWG28
2	CM+7.0414.4002.0	Capacitor, (120 VAC, 60 Hz)
2	CM+7.0433.7036.0	Transformer, (120 VAC, 60 Hz)
2	CM+8.9462.4350.0	Fan, (120VAC,60HZ)
2	CM+8.9462.4546.0	Eprom IC-10, (120 VAC, 60 Hz)
3	CM+6.0200.449.00	Shaft Pin, Cylindrical
3	CM+6.0219.144.00	Shaft Pin, Grooved
3	CM+7.8187.6655.1	Gear, Spiral, 22 Teeth
3	CM+7.9402.1101.1	Gear, Straight-Toothed
3	CM+7.9402.1129.0	Snap Ring
3	CM+7.9460.2258.0	Bearing, Main Drive
3	CM+7.9462.1204.0	Gear, 25 Teeth
3	CM+7.9462.1206.0	Gear, 46 Teeth
3	CM+7.9462.1212.0	Gear, Helical Spur, 24 Teeth
3	CM+7.9462.1214.0	Gear, Dryer Worm Drive
3	CM+7.9462.1215.0	Union, Drive Gear
3	CM+7.9462.1218.0	Gear, Spur
3	CM+7.9462.1253.3	Bearing, Drive Shaft
3	CM+8.9462.1270.0	Gear, Worm
3	CM+7.9462.1275.0	Gear, Spur
3	CM+7.9462.4011.0	Motor, Gear Drive (120 VAC, 60 Hz)
3	CM+8.9462.4050.1	Drive Gear Assembly (120 VAC, 60Hz)

Figure No.	Part No.	Description
4	CM+7.0389.6536.0	Belt, Toothed, Motor Drive
4	CM+6.0215.620.00	Screw, Hexagon Head
4	CM+6.0227.510.00	Washer, Metal
4	CM+6.0250.127.00	Shaft Pin, Grooved
4	CM+7.0329.5220.0	Washer, Retaining Disc
4	CM+7.9462.1219.1	Gear, Transfer (Large)
4	CM+8.9462.1230.0	Plate, Shaft
4	CM+8.9462.1240.0	Gear, Motor Drive, 15 Teeth
4	CM+7.0389.5060.0	Gear, Transfer (Small)
4	CM+7.0389.6528.0	Belt, Toothed, Pump Drive
4	CM+7.0426.6061.0	Switch, Rocker, Replenishment Key
4	CM+7.8897.6103.1	Roller, Drive Belt
4	CM+7.9432.3025.0	Snap Ring, Keeper
4	CM+7.9460.2552.1	Switch, Rocker, Power ON/OFF
4	CM+7.9432.2561.0	Scale Plate, Dryer Temperature
4	CM+7.9460.2562.1	Setting Knob, Dryer Temperature
4	CM+8.9460.2590.0	5GS1-Step Switch, Dryer Temperature
4	CM+7.9462.1207.1	Shaft, Drive
4	CM+8.9462.1250.0	Gear Plate
4	CM+7.9462.1252.3	Bearing
4	CM+8.9462.1260.1	Gear and Shaft, Pump Drive
4	CM+8.9462.1260.4	Gear and Shaft, Pump Drive
4	CM+7.9462.1281.0	Switch Enclosure, Control Panel
4	CM+8.9462.2520.0	VDR-Board, Dryer Step Control
4	CM+7.9462.4014.0	Motor, Drive (120 VAC, 60 Hz)
5	CM+8.8370.2615.0	Pump Assembly
5	CM+7.9432.1006.0	Label, Numbers 1-6 (Tanks)
5	CM+7.9432.2002.0	Swinging Bracket, Tank Drain Tube
5	CM+7.9432.2003.1	Tube, Drain
5	CM+7.9432.2854.1	Gear, Crown
5	CM+7.9441.1007.0	Label, Numbers 1-6 (Rollers)
5	CM+8.9462,1620.0	Roller Assembly, Rubber, Exit
5 & 6	CM+9.9432.2020.3	Roller Guide Assembly
5 & 6	CM+6.0236.753.00	Shaft Pin, Spring
5 & 6	CM+8.9432.2090.0	Guide Plate
5 & 6	CM+7.9432.2109.1	Tension Spring, Transport Roller
5 & 6	CM+8.9432.2180.4	Roller Assembly, Rubber, Entrance
5 & 6	CM+8.9432.2720.0	Latch, Replenishment Pump
5 & 6	CM+7.9462.1027.0	Gear, Spur
5 & 6	CM+8.8370.2655.0	Heater, Tank (D, F)
5 & 6	CM+8.8370.2665.0	Tank, (D, F, W)

Figure No.	Part No.	Description
6	CM+8.9432.2020.3	Roller Guide Assembly (Tank Cover)
6	CM+7.9432.2022.2	Bearing Bolt, Guide Roller (D, F, W)
6	CM+7.9432.2025.0	Gear, Helical, Upper Drive (D, F, W)
6	CM+7.9432.2026.0	Gear, Helical (D, F, W)
6	CM+7.9432.2111.0	Gear, Bevel, Guide Roller
6	CM+7.9432.2115.0	Gear, Bevel, Transport Roller (Upper)
6	CM+7.9432.2116.0	Gear, Bevel, Transport Roller (Lower)
6	CM+9.9432.2310.2	Roller Assembly, Hard
6	CM+8.9432.2450.2	Roller Assembly, Hard
6	CM+9.9432.2910.3	Pump Assembly (Fixer)
6	CM+9.9432.2920.4	Pump Assembly (Water)
6	CM+7.9441.2101.0	Bearing, Transport Roller
6	CM+8.8370.2655.0	Heater, Fixer/Developer, 110 VAC, 60 Hz
5	CM+7.0329.4640.0	Washer
7	CM+6.0200.439.00	Shaft Pin, Cylindrical (Short)
7	CM+6.0200.449.00	Shaft Pin, Cylindrical (Long)
7	CM+7.0327.3800.0	Washer (Small)
7	CM+7.8185.6037.0	Washer (Large)
7	CM+7.8352.1572.1	Gear, Spur, Dryer Roller
7	CM+7.9402.1129.0	Snap Ring
7	CM+8.9462.1350.0	Plate with Bearing, Dryer Assembly
7	CM+7.9462.1354.1	Gear, Spur, Dryer Guide Roller
7	CM+7.9462.1355.0	Guide Bolt, Dryer Assembly Plate
7 & 8	CM+7.9460.2105.0	Bearing (Top)
7 & 8	CM+7.9460.2106.0	Bearing (Bottom)

Figure No.	Part No.	Description
7	CM+6.0200.439.00	Shaft Pin, Cylindrical (Short)
7	CM+6.0200.449.00	Shaft Pin, Cylindrical (Long)
7	CM+7.0327.3800.0	Washer (Small)
7	CM+7.8185.6037.0	Washer (Large)
7	CM+7.8352.1572.1	Gear, Spur, Dryer Roller
7	CM+7.9402.1129.0	Snap Ring
7	CM+8.9462.1350.0	Plate with Bearing, Dryer Assembly
7	CM+7.9462.1354.1	Gear, Spur, Dryer Guide Roller
7	CM+7.9462.1355.0	Guide Bolt, Dryer Assembly Plate
7 & 8	CM+7.9460.2105.0	Bearing (Top)
7 & 8	CM+7.9460.2106.0	Bearing (Bottom)
8	CM+7.8155.4401.1	Grooved Bushing, Tension Spring
8	CM+7.8157.6225.0	Washer, Squeegee Roller
8	CM+7.8157.6229.0	Retaining Ring, Squeegee Roller
8	CM+7.8185.6023.1	Keeper
8	CM+7.8187.6851.2	Bearing/Retainer, Squeegee Roller (Rear)
8	CM+7.8187.6852.2	Bearing/Retainer, Squeegee Roller (Front)
8	CM+7.8187.6853.0	Tension Spring, Squeegee Roller
8	CM+7.8187.6862.0	Key, Gear
8	CM+7.8187.6863.0	Gear, Helical Spur, 22 Teeth
8	CM+8.8195.6680.0	Squeegee Roller Assembly
8	CM+7.9460.1013.0	Clip, Long)
8	CM+7.9462.1301.1	Tie Rod
8	CM+7.9462.1305.0	Guide Plate
8	CM+7.9462.1307.0	Clip, Short
8	CM+8.9462.1360.0	Plate with Bearings, Dryer Assembly (Front)
8	CM+8.9462.1370.0	Roller, Dryer Feed, 1/2 inch (Rubber)
8	CM+8.9462.1400.0	Roller, Dryer Guide, 1 inch (Rubber)
8	CM+8.9462.1430.0	Roller, Dryer Guide, 1 inch (PVC)
9	CM+7.9462.1021.0	Mounting Plate, Heater
9	CM+8.9462.4300.2	IR Unit Assembly, 120 VAC, 60 Hz
9	CM+7.9462.4315.0	IR Heater, 120 VAC, 60 Hz
9	CM+8.9462.4685.0	Cross-Flow Blower, 120 VAC, 60 Hz (Bottom)
9	CM+8.9462.4690.0	Cross-Flow Blower, 120 VAC, 60 Hz (Top)
9	CM+9.8148.6611.0	Switch, Over Temperature, Dryer Safety

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Appendix C – How to get help when you need it

1. Call the Agfa Dealer from whom you purchased this equipment.

Have the following information ready when you call:

1. Serial Number of equipment. It is located on the Dryer side of the Processor.
2. Type of equipment.
3. Date of Installation and who installed equipment.
4. If purchased directly from Agfa, please have your Account Number, and a Purchase Order Number if a Service Call is requested.

Try to have the following additional information ready when you call:

A. Describe the problem in as much detail as possible.

B. What were you trying to do when the problem occurred?

C. What action, if any, did you take to try to remedy the problem?

D. Try to have your Instruction Manual handy when you call, and make the call from as close to the equipment as possible. This will help the Dealer's Service Representative "walk you through" the troubleshooting procedures.

2. Call The Technical Hotline: 1-800-456-2600

Have the following information ready when you call:

1. Serial Number of equipment.
2. Type of equipment.
3. Date of Installation and who installed equipment.
4. If purchased directly from Agfa, please have your Account Number, and a Purchase Order Number if a Service Call is requested.
5. If purchased from a dealer, the name of the dealer.

Try to have the following additional information ready when you call:

A. Describe the problem in as much detail as possible.

B. What were you trying to do when the problem occurred?

C. What action, if any, did you take to try to remedy the problem?

D. Try to have your Instruction Manual handy when you call, and make the call from as close to the equipment as possible. This will help the Agfa Service Representative "walk you through" the troubleshooting procedures.

3. For Spare Parts or to Order Supplies:

1. Fill out and Mail the Order Card included in the Service Parts Kit.
2. Spare or Replacement Parts may be ordered directly from your Dealer, or you may call The Technical Hotline Order Department at (1-800-365-0191)
3. Carefully check the Part Number against the Exploded Views in Appendix A and the Parts List in Appendix B before placing an order. You will need the complete and correct Part Number when you order spare parts.

NOTE: There is a Minimum Order Charge of $35.00

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Appendix D: Equipment Specifications

Film Sizes:
Maximum Width: 14"
Maximum Size: 4" x 4"

Tray Capacity:

Developer:	0.24 gal (0.9 liter)
Fixer:	0.24 gal (0.9 liter)
Wash-Water:	o.24 gal (0.9 liter)

Replenisher Bottles: 0.66 gal (2.5 liter)

Film Transport Speed: 11 in./min (28.5 cm/min)

Processing Time: 185 seconds, dry-to-dry

Suggested Chemistry:
AGFA G153 Developer Concentrate
AGFA G354 Fixer Concentrate

Output: 60 films/hr (10" x 12")

Warm-Up Time: 7 minutes

Automatic Standby Mode:
"Optimizing Key" for replenishment

Infrared Dryer: Heat generated during continuous operation at dryer setting of #4 is 1990 BTU/hr

Noise Level: 60 dB ±1 dB (A)

Power Requirements: 120 VAC, 60 Hz, 1100 W max
Standby Mode: 100 W
Average Power Consumption: 400 W/hr

Dimensions:
37" W x 25.5" D x 17" H
(without light cover)

Clearance Dimensions:
39" W x 27" D x 28" H

Minimum Counter Required:
26" x 26"

Weight:
119 lb (empty)
141 lb (with chemistry and water)

Standard Equipment:
CURIX 60 Processor with Drain Hoses
6 Replenisher Bottles
3 Replenisher-Bottle Valves and Caps
Adapter Hose Accessory (drain)
Feed Tray/Light Cover Accessory
Operator's Manual

Cat. No.: FZ3H2000

OPTIONS:

5-Gallon Waste Bottle
Cat. No.: F8AM4439

Fixed Water Supply Connection: Type 9424/100 for continuous water supply
Cat. No.: FZ3H2010

Counter Support:
31" x 27" wood panel
Cat. No.: F8AM4440

CURIX 60 Processor Stand:
Sturdy and easy to clean Formica-covered wood construction
Cat. No.: FZ3H2003

Spare Parts Kit:
Includes video tape instructions
Cat. No.: F8AM4482

CURIX 60 CHEMISTRY

AGFA G153 Developer Concentrate:
2.5 liter mixes (Part "A" & "B")
12 mixes per case
Cat. No.: FY1H0070

AGFA G354 Fixer Concentrate
2.5 liter mixes (Single Part)
18 mixes per case
Cat. No.: FY1H0078

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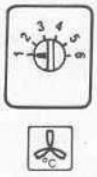
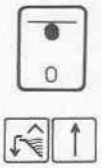
Always check the following	• Power cord is in wall outlet. • Processor Receiver Tray/Cover and Dryer Cover are securely closed. • Replenishment Bottles are properly positioned in Bottle Holder. • Darkroom door is closed and safe light is on. • Cold water tap is open (if Optional Fixed Water Connection is installed).
Turning the Processor ON	• Depress the red Power Switch at position "i". The switch is illuminated. • Seven-minute warm-up period starts. Fans and heaters are activated.
Selecting the Dryer Temperature 	• Normal setting for this control is "3". • Consult Operator's Manual before changing this setting. See SECTION 4 - Troubleshooting.
Manual Replenishment 	• Use Manual Replenishment if processor has been idle for more than one day. • Briefly depress Replenishment Key. The indicator light will go on indicating the three-minute replenishment cycle. • When light goes out, film may be fed into processor. • Normal replenishment is automatic.
Film feed (with Light-Tight cover attached)	• Make sure darkroom door is closed and safe light is on. • Open Light-Tight Cover and insert film into feed slot. Close cover. • The red lamp on the Replenishment Key will go on. • When the lamp goes off again (about three-minutes) feed the next film into the processor. • Once film is inserted and the Light-Tight Cover is closed, the darkroom door may be opened. • The largest film width that can be processed is 14 in. (36 cm.) • Feed 4 x 4 in. (10 cm x 10 cm) films diagonally.
Turning the Processor OFF	• Depress the red Power Switch at position "O". The switch lamp goes out. CAUTION: Never turn the processor OFF during film transport.
IMPORTANT Replenishment	• After you have finished processing, remove the Developer Bottle and open the Receiver Tray/Cover slightly. • If the processor is not operating properly, the trouble can often be remedied by turning the processor OFF and then ON again. If this does not work, see SECTION 4 -Troubleshooting in the Operator's Manual. • If you still have difficulty, call your Dealer or the Technical Hotline.

CURIX 60 Processor
(Type 9462/100/120/140)

Quick Troubleshooting Guide

If you encounter operating problems, try turning the processor OFF and then ON again. This self-correcting action often solves troubles related to the microprocessors.

Refer to the Operator's Manual SECTION 4 – Trouble shooting for more complete information.

Refer to SECTION 5 – Maintenance Procedures, to correct the most common troubles.

Troubleshooting and Maintenance Procedures may require you to open the Processor for observation or adjustment. **Observe all safety precautions when handling chemicals and internal parts of the Processor. Refer to SECTIONS 4 and 5 before attempting any of these procedures.**

If you still have difficulty restoring proper operation to the processor, refer to Apendix C – "How to Get Help When You Need It."

Electro-mechanical Troubles

Trouble	Probable Cause	Corrective Action
Processor will not turn ON	• Power Plug not in power outlet. • Blown service fuse. • Receiver Tray/Cover not properly closed. • Fuse SI-2 (6.25A is blown)	• Check Power Plug. Plug it in. • Check fuse. Replace if blown. • Properly close Cover to engage interlock pin. • See SECTIONS 4 & 5.
Film transport **TURN PROCESSOR OFF**	• Transport Drive inoperative or disengaged. • Distribution (Squeegee) Roller Assembly inoperative or disengaged.	• Check Transport Drive Gears. Engage if necessary. • Check Squeegee Roller Assembly and Drive Gear. Engage Gear. • See SECTIONS 4 & 5.
Film jamming **TURN PROCESSOR OFF** **Note: Jamming can also be caused by defective chemistry.**	• Exhusted chemistry may cause film to wrap around roller. • Misaligned Guide Plates • Misaligned Transport or Squeegee Rollers. • Defective drive gears.	• Check chemistry. Replenish or replace chemistry. Remove film from roller. • Check Guide Plates. Realign. • Check rollers and drive gears. Align rollers or engage gears. • Replace defective drive gears. • See SECTIONS 4 & 5.
Film drying **Note: Drying problems can also be caused by defective chemistry and excess humidity.**	• Improper setting on Dryer Temperature Control • Dryer defective.	• Increase or decrease dryer temperature by turning control. • Repair or replace Dryer. This should be performed by qualified Service Technician. Call Dealer or Technical Hotline.
Chemical temperature	• Defective Tank Heaters	• Heaters are factory set. Repair or replacements should be performed by qualified Service Technician. Call Dealer or Technical Hotline.
Replenishment	• Replenishment Bottles empty. • Replenishment rates need adjustment. • Processor not level	• Fill Replenishment Bottles. • See SECTION 2, Replenishment Rate Adjustment Procedure. • Adjust leveling screws. See SECTION 1.

Film Condition and Appearance

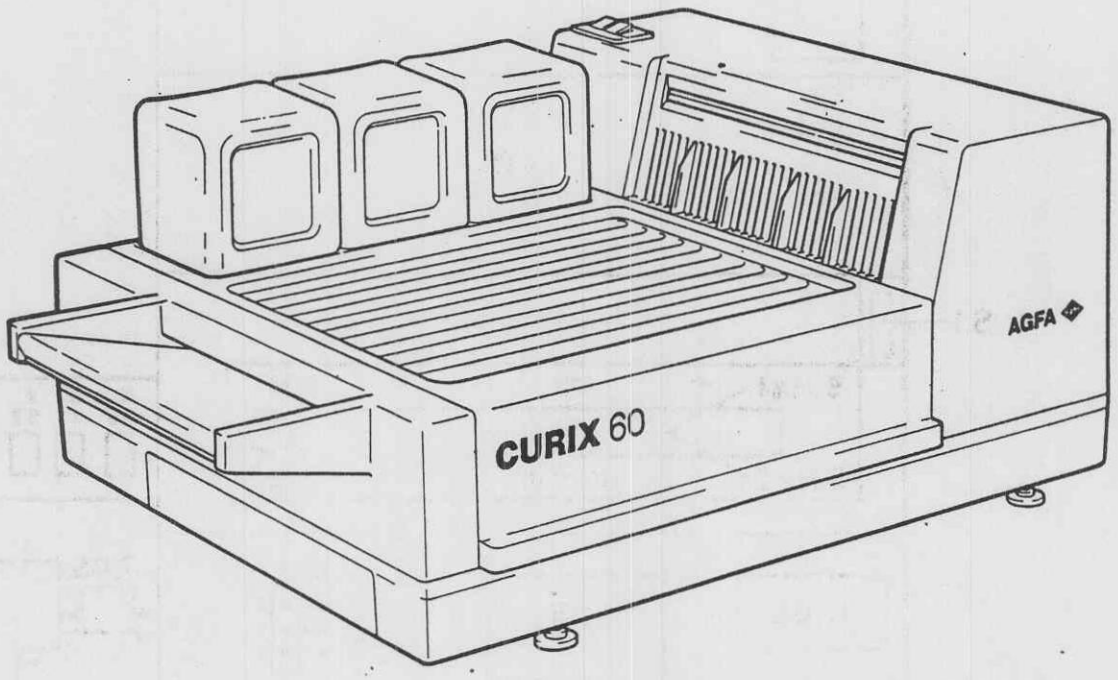
Trouble	Probable Cause	Corrective Action
Light lengthwise stripes	• Transport or Squeege Rollers need cleaning.	• Clean rollers with luke warm water and sponge or clean in sink.
Closely spaced, light and dark crosswise stripes	• Defective Film Transport System, rollers,drive gears, roller springs. • Exhausted Developer or incorrect replenishment rate. • Defective Squeegee Roller Drive Gear.	• See SECTIONS 4 & 5. Replace defective parts. • Check developer replenishment rate. If rate is O.K., clean tank and replace developer. • See SECTIONS 4 & 5. Replace defective parts.
Lengthwise scratches	• Feed Table or Guide Plates need cleaning. • Loose or missing Keepers in Dryer Assembly.	• Clean with luke warm water. Dry Table before processing films. • See SECTIONS 4 & 5. Replace Keepers.
Irregular processing	• Processor not level.	• Level processor. See SECTION 1.
Water spots	• Dirty Squeegee Rollers. • Retaining Springs on Squeegee Roller Assembly are slack.	• Clean rollers with luke warm water. See SECTION 3. • Check spring tension. See SECTIONS 4 & 5.
Insufficient or excessive contrast, or insufficient density	• Exhausted developer, or processor idle too long. • Improper developer temperature. • Improper replenishment rate.	• Press Replenishment Key. If developer is exhausted, clean tank and prepare fresh developer. • Check temperature. If not between 92° F to 94° F, call Dealer or Technical Hotline. • Check replenishment rate, SECTION 2. Check replenishment system operation, SECTION 4 (4.3.2 & 4.3.3).
Dense fogging	• Developer contaminated by fixer. • Developer exhausted, improperly replenished or wrong temperature.	• Drain and clean tank. Mix new developer. Refill tank. • Follow corrective actions for insufficient contrast or density.
Irregular drying	• Dryer temperature too high. • Room temperature too low. • Dryer fan defective.	• Check and adjust temperature. • Check and adjust temperature. • See SECTION 4 (4.3.1) to check Dryer Fan. If defective, call Dealer or Technical Hotline.
Inadequate drying **Note: May also be caused by mechanical malfunction of pumps, gears, etc. See SECTION 4 (4.3.3)**	• Dryer temperature too low. • Dryer defective. • Developer and/or fixer exhausted or improperly replenished.	• Check and adjust temperature. • See SECTION 4 (4.3.1). If defective call Dealer ot Technical Hotline. • If processor has been idle, press Replenishment Key. If developer and/or fixer is exhausted, drain and clean tanks. Mix new developer and/or fixer and refill tank. See SECTION 4 (4.3.2)

DIS/No. 028/88

CURIX 60

Technical Documentation

Types 9462/100/140



1st Edition

Service Support International
DIS-Division

AGFA

Reference diagram Curix 60

1.	Wiring (Curix 60) — 1 —	
0.ST1	Mains connection cable	1.XS1
0.M1	Drive motor	1.BU6
0.M2	Circulation-replenishment motor	2.BU83
1.XS1		1.XK1
1.BU9		2.BU80
1.ST10		18.ST1
1.BU8		11.BU5
1.BU1		11.ST1
1.BU7		1.TR1/1,3,5
1.BU11		1.TR1/7,8
1.XK1/4		7.GS/PE
1.XK1/4		18.GS/PE
2.BU81		1.BU5
2.BU82		2.C1
1.GS	Distributor board	
2.GS	Scopix-Mini speed selection	
3.	Wiring (solution heater) — 3 —	
3.Hz1	Developer heater	1.BU3
3.Hz2	Fixer heater	1.BU4
4.S1	Cover switch	1.XS1, 6.S2
5.	Wiring (dryer) — 5 —	
5.Hz1	Dryer heater top	5.BU5
5.Hz2	Dryer heater bottom	5.BU6
5.M1	Fan top	5.BU3
5.M2	Fan bottom	5.BU4
5.BU2	Adapter cable	5.ST5,6
6.GS	GS dryer step switch	
6.S2,XS1		2.MC1
7.GS	GS-VDR board	
7.BU1		18.BU7,8
7.BU2		6.S3
7.GS/PE		1.XK1/4
8.	Wiring (scanning rollers) — 8 —	
8.S1/1,2		18.BU13/1,2
8.S2/1,2		18.BU13/3,4
10.	Wiring (fan - Curix 60) — 10 —	
10.M1		1.BU2
11.GS	GS triac board	
11.ST1		1.BU1
11.BU5		1.BU8
18.GS	GS program (control board Curix 60)	
18.ST1		1.ST10
18.BU15		1.TR1
18.BU5		6.BU1
18.BU7,8		7.BU1
18.GS/PE		1.XK1/4

1 Reference diagrams		
2 Description of function		
3 Service program		
4 Technical information Standard modifications		
5 Flash bulletins		
6 Overall circuit diagrams		
7 Circuit diagram — control board 18.GS1		
8 Circuit diagram — triac board 11.GS1		
9 Circuit diagrams — GS dryer step-switch — GS VDR board — GS distributor board — GS speed selection		
10 Maintenance check list		
11 Modification instructions		
12 Spare-parts list		
13 Specifications and installation instructions		
14 Starting operation		
15 Operating instructions		

Functional description Curix 60

1. General information

With the machine switch the drive motor (transport speed 28 cm/min), pump motor, solution heaters and exhaust fan are switched on.
The developer and fixer heater have a capillary tube regulator and a thermal cutout which cannot be reset from the outside (switch threshold 70 °C — 7 K).
The temperature setting ex factory is 34 °C ± 1 K.
The exhaust fan which is active through the operating time prevents condensation.

2. Sequence of function

After connection of the 3 replenishment containers the solutions are filled automatically up to the bottom edge of the valves. When the machine is switched on a starting cycle is carried out independent of developer temperature and the solution levels, during this cycle the dryer heater is activated for 225 s and the dryer fan for 265 s.
Warm-up time of the solutions is about 7 minutes depending on the respective temperature.

Film feed is detected with 2 magnetic rollers/reed switches. The film end detection then starts the following periods within the film cycle:

— Replenishment, delay time 15 s
— Dryer heater, delay time 225 s
— Dryer fan, delay time 265 s

Whenever the magnetic roller is turning the process times are constantly reactivated. The IR dryer and the fan are triggered immediately. The user can adjust the dryer temperature with the step switch in percentage steps (10/20/30/40/50/60 percent).

As long as film is being fed double the amount of solution is circulated due to the speed doubling of the pump motor to about 720 rpm. The pump outlet located below the tank level only allows a certain amount of throughput which is sufficient for the circulation with the normal speed. Therefore part of the increased amount of solution rises in the vertical pipe and flows over at the top into the collection chute of the respective exit rollers and from there into the drain. The respective amount of fresh solution is replenished automatically.

The replenishment is only controlled by the length of a film, the width must therefore be considered in the pump adjustment.

15 s after the film end has entered, the signal lamp goes out and indicates that another film can be fed. If no more films are fed then 40 s after film exit the IR radiator switches off and 80 s after film exit the fan switches off.
Activation of the replenishment key 6.S3 switches the pump motor to double the speed and starts a 3 minutes replenishment cycle which is independent of film transport.

3. Notes on the control board 18.GS1

The wire-strap switches on this board are all open as they are not used in this application.

Service program

A simple service program can be activated by jumpering contacts 1 and 3 on the control board (ST18).

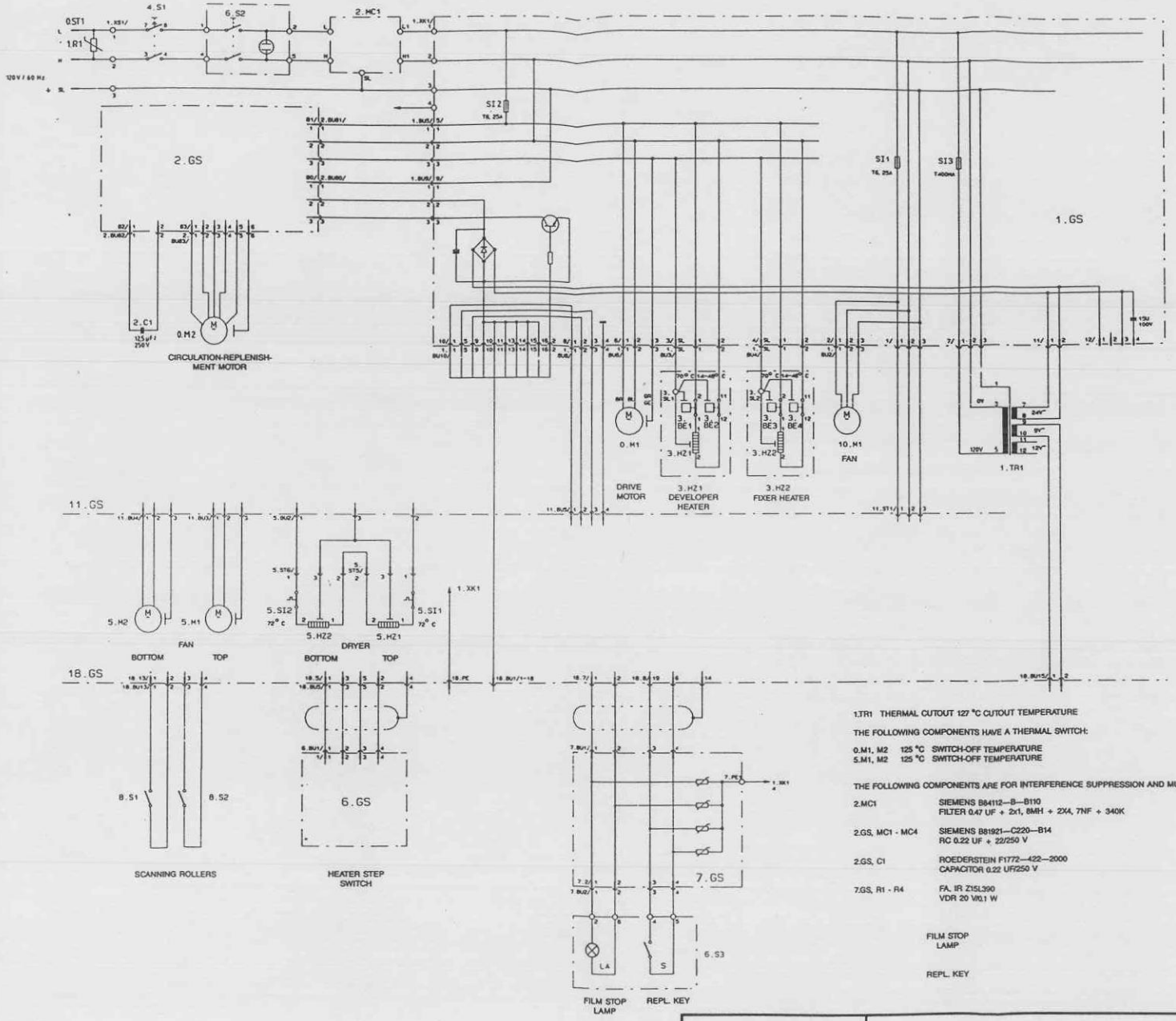
Output:

1. Step:	fan 5M1 and M2	time limit:	25 s
2. Step:	fan + IR 5M1, M2, Hz1, 2	time limit:	5 s
3. Step:	circulation 0.M2		
4. Step:	replenishment	30 s	

Input:

Roller 8.S1
Roller 8.S2
Replenishment key 6.S3

The red lamp in the replenishment key indicates the loaded value. Depending on the status of the loaded value the lamp will be switched ON or OFF.



1.TR1 THERMAL CUTOUT 127 °C CUTOUT TEMPERATURE

THE FOLLOWING COMPONENTS HAVE A THERMAL SWITCH:

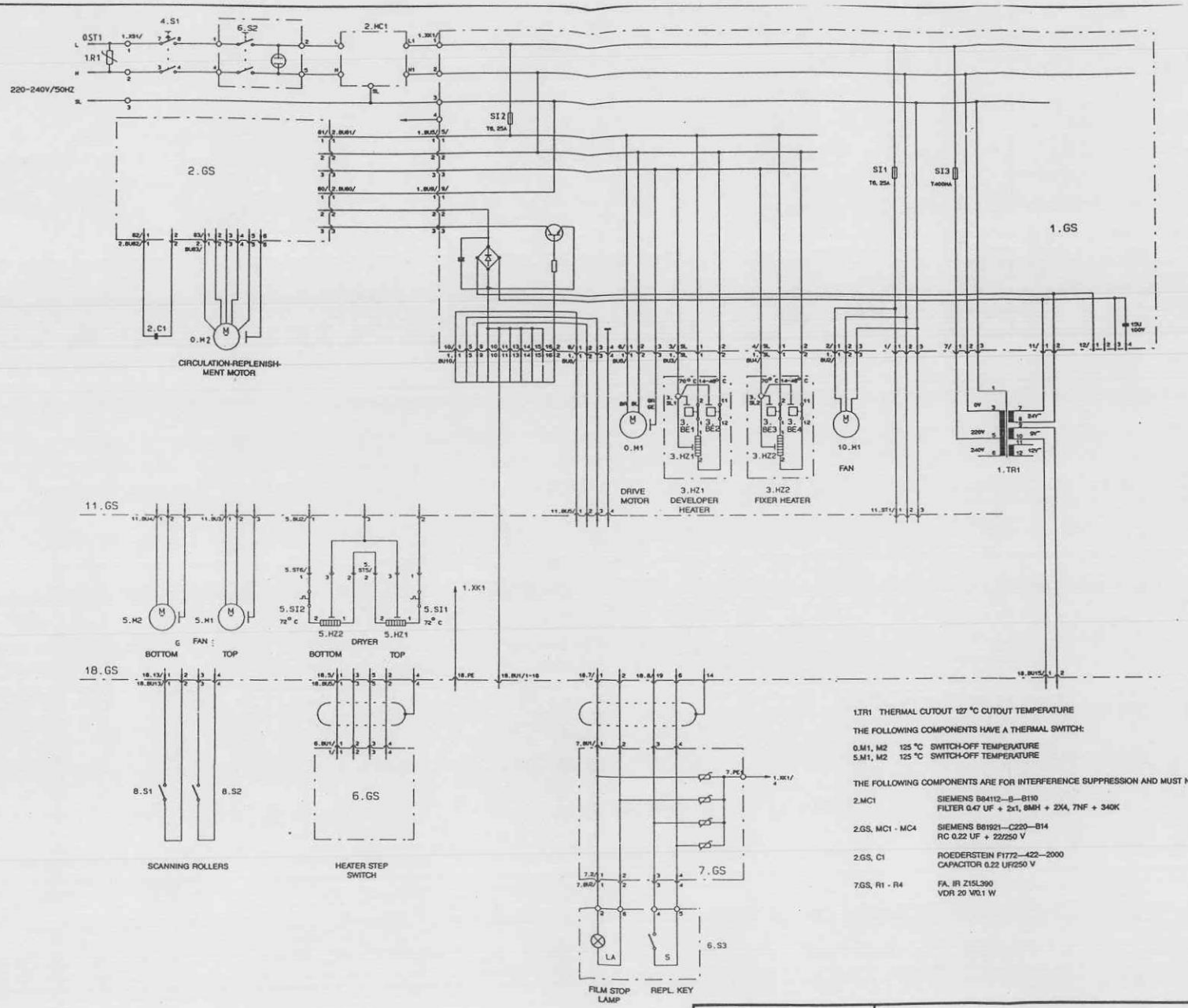
0.M1, M2 125 °C SWITCH-OFF TEMPERATURE
5.M1, M2 125 °C SWITCH-OFF TEMPERATURE

THE FOLLOWING COMPONENTS ARE FOR INTERFERENCE SUPPRESSION AND MUST NOT BE ALTERED:

2.MC1	SIEMENS B84112—B—B110 FILTER 0.47 UF + 2x1, 8MH + 2X4, 7NF + 340K
2.GS, MC1 - MC4	SIEMENS B81921—C220—B14 RC 0.22 UF + 22/250 V
2.GS, C1	ROEDERSTEIN F1772—422—2000 CAPACITOR 0.22 UF/250 V
7.GS, R1 - R4	FA. IR Z15L390 VDR 20 V/0.1 W

FILM STOP LAMP

REPL. KEY



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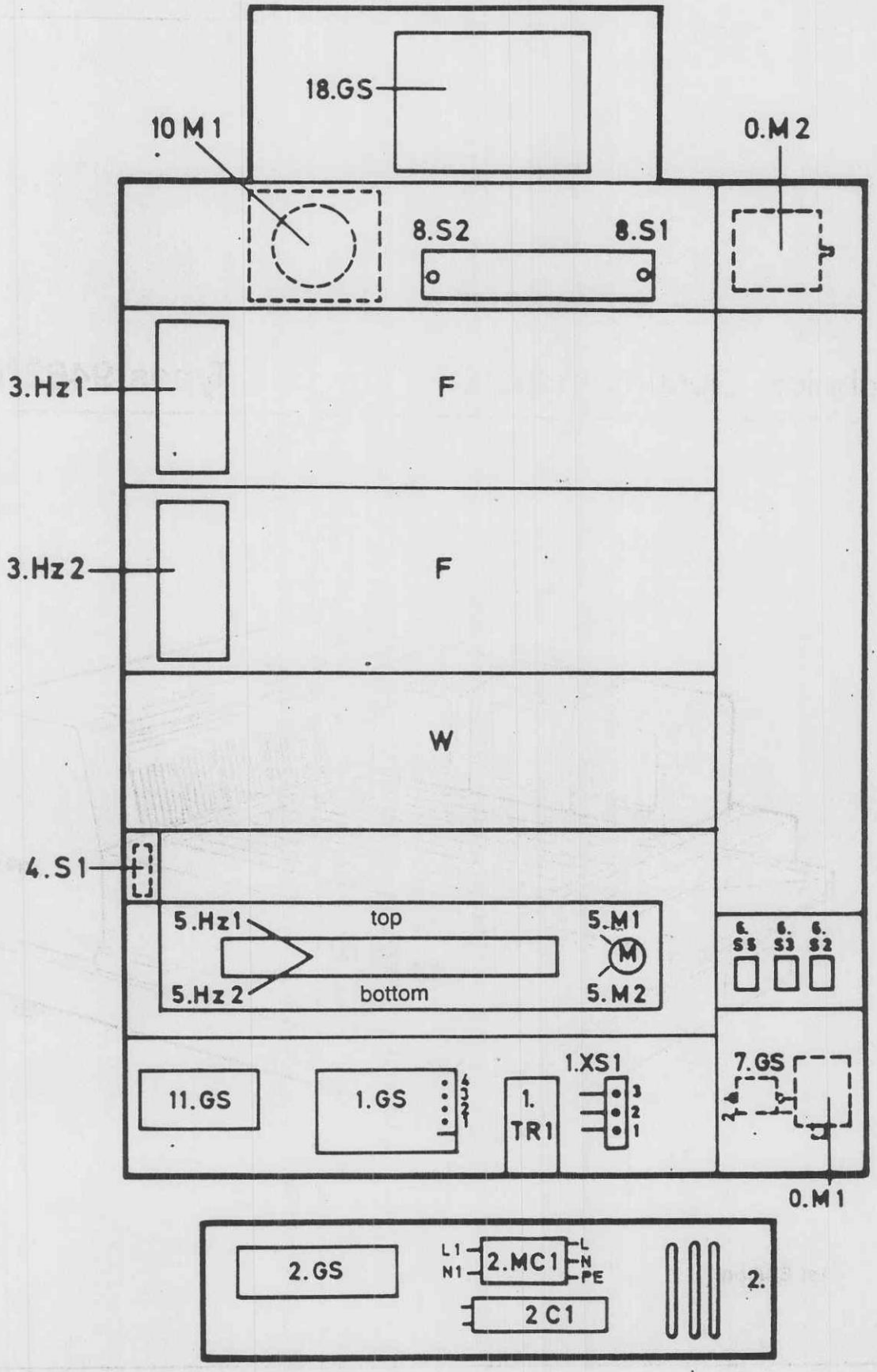

Note: Electrical and mechanical repairs may only be carried out by the respective authorized technician.

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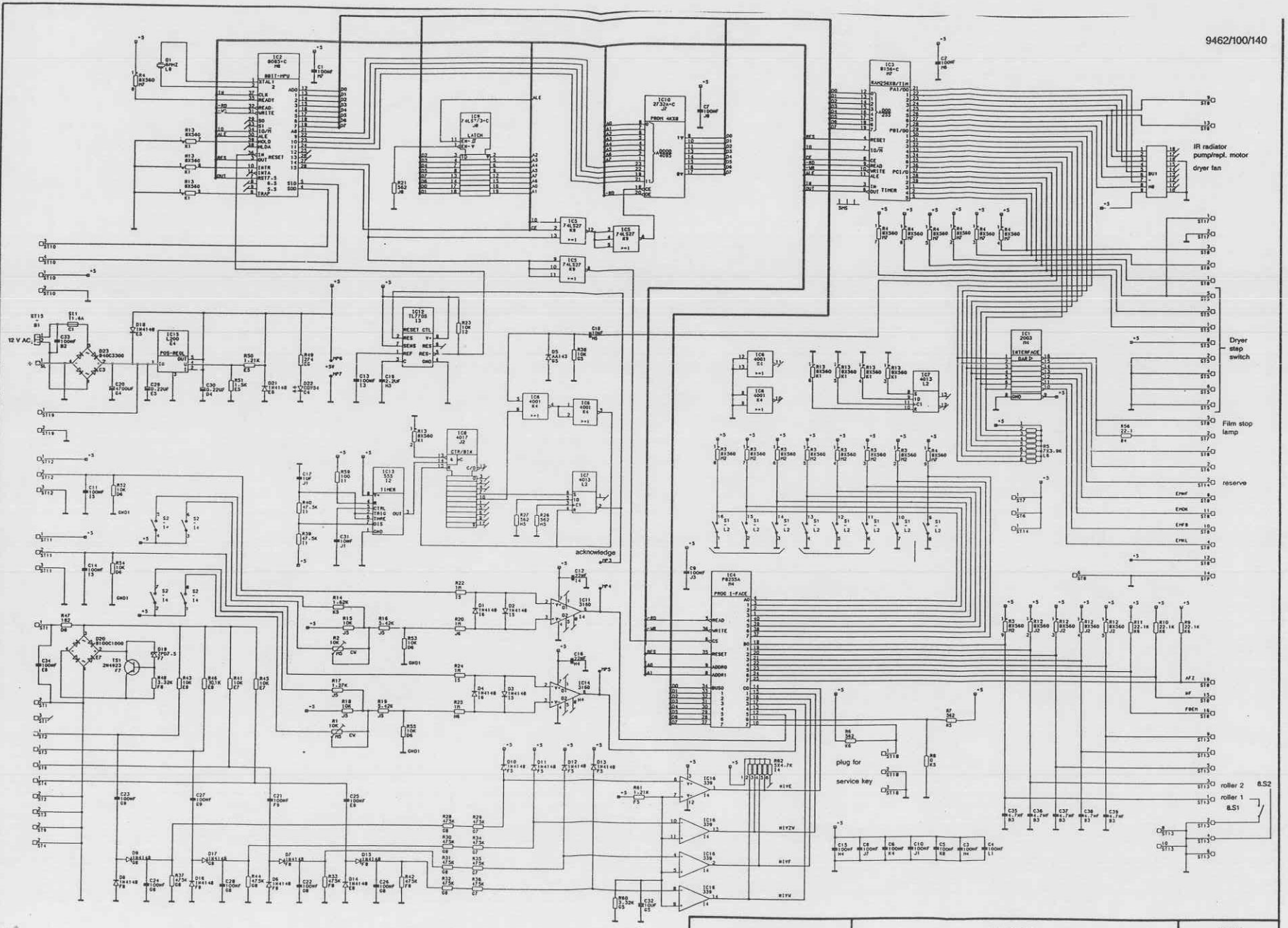
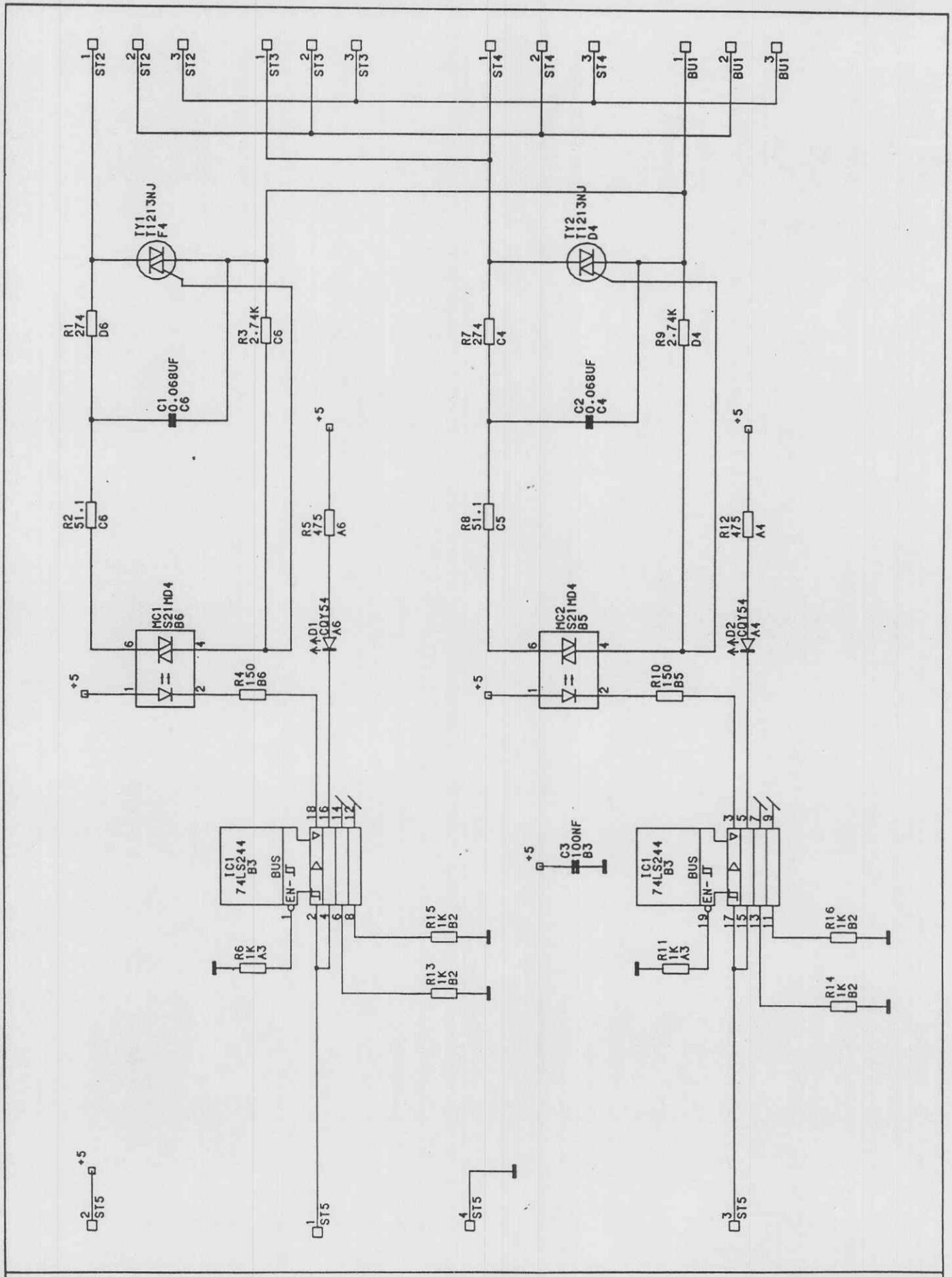


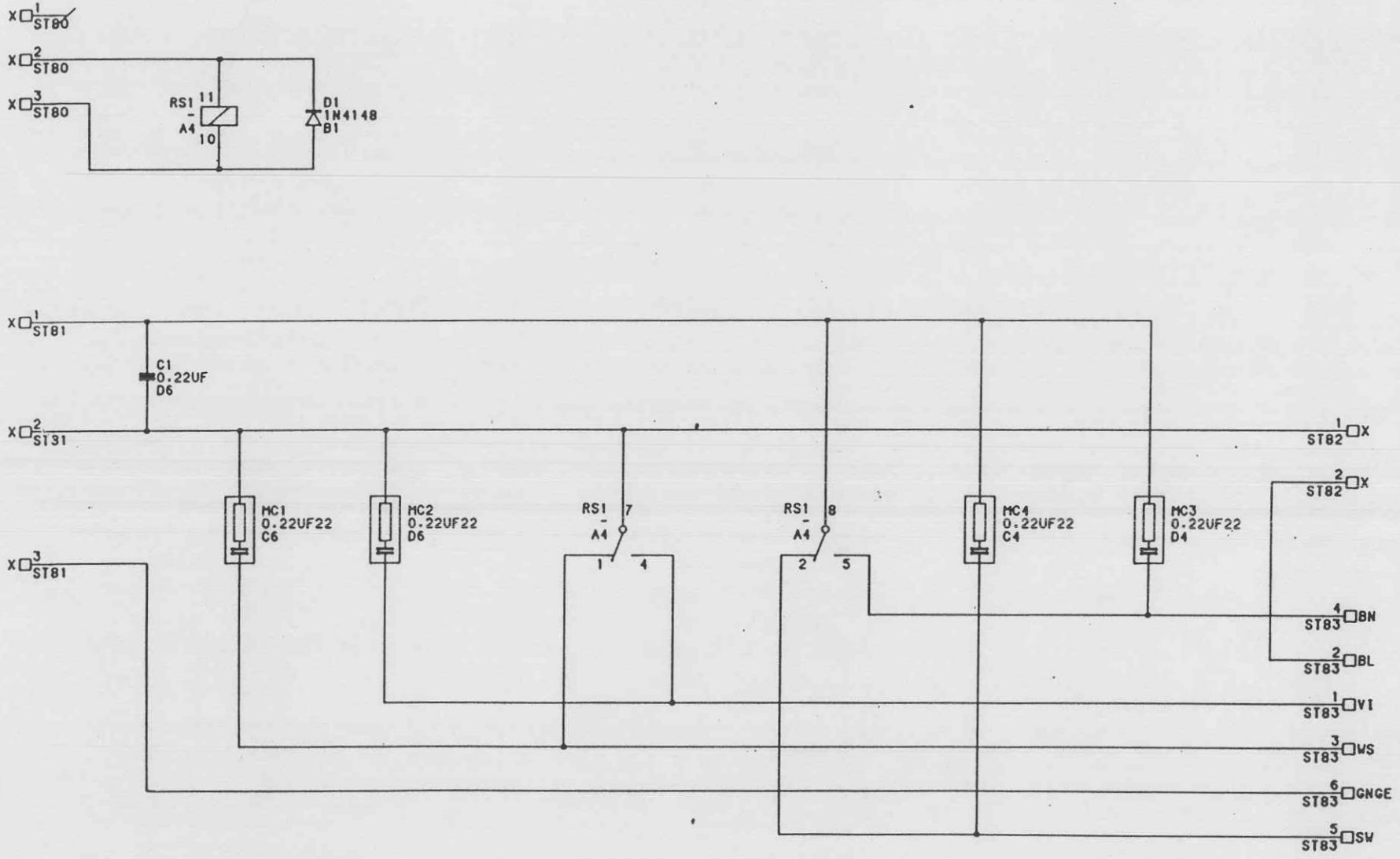


CURIX 60

Circuit diagram triac board 11.GS1

CURIX 60

Circuit diagram speed selection 2.GS



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CURIX 60 — Starting operation

1. Adjustments before putting the machine into operation

1.1 Level installation

Check with a spirit level on the roller pairs 1 and 6 in both directions, transport direction and crosswise.

Adjustment is possible with the 4 adjustable legs.

1.2 Replenishment adjustment

Standard consumption:

Developer G153: 600 ml/m^2 ≙ 35 mm level difference in the bottle
Fixer G353: 750 ml/m^2 ≙ 43 mm level difference in the bottle
Water: 900 ml/m^2 ≙ 52 mm level difference in the bottle

Adjustment procedure:

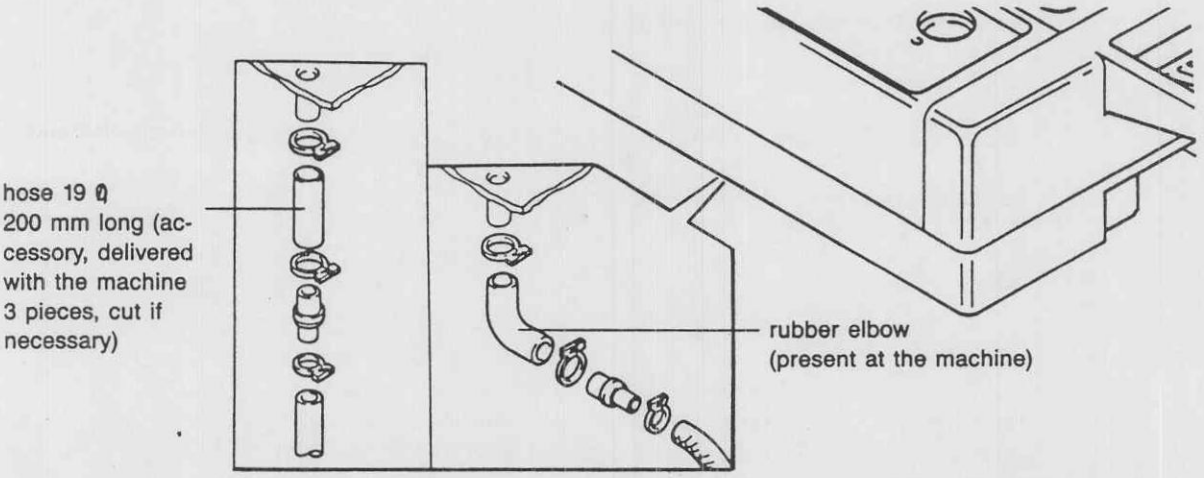
— mark the level on the 3 bottles
— press the replenisher key briefly, replenishment runs for 3 minutes
— measure the level difference on the bottle
— alter by turning the screw on the vertical pipe of the pump:
+ counterclockwise — clockwise
Tolerance for all solutions is ± 15 percent.

Replenishment rates, table for the adjustment of the most common sizes

time: 3 min.	(standard/average) 24 x 30 cm	mainly large sizes > 24 x 30 cm	mainly small sizes < 24 x 30 cm	smallest size 10 x 10 cm
Developer	150 ml/ 8.5 mm	175 ml/10.0 mm	110 ml/6.5 mm	60 ml/3.5 mm
Fixer	185 ml/10.5 mm	225 ml/13.0 mm	150 ml/8.5 mm	80 ml/4.5 mm
Water	225 ml/13.0 mm	265 ml/15.0 mm	165 ml/9.5 mm	100 ml/5.5 mm

2. Notes on the positioning of drain hoses

— The CURIX 60 comes with three individual 1500 mm (59") long PVC hoses, transparent 15 x 3 (0.59 x 0.12") fibre reinforcement (Accocord). The hoses can be installed through the sides with 90° rubber elbows. A separate fixer drain allows silver recovery.

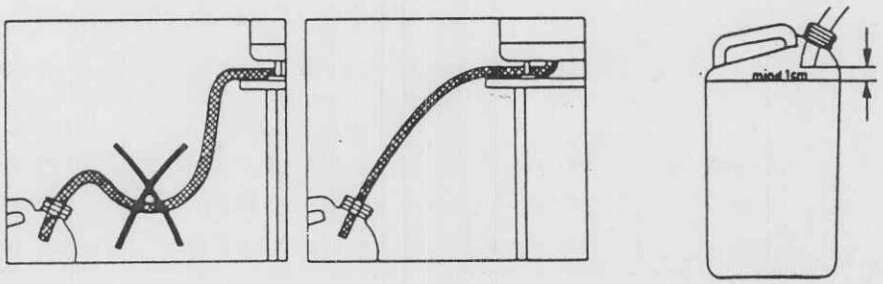


— In case the three hoses are to be installed straight down through a recess in the table, then the 3 rubber elbows must be replaced by straight hoses.

— If hoses for a longer distance are required, they can be ordered as follows:

CM + 7.9462.1036.0	PVC hose, 1500 (59") long (order 3x)
CM + 7.9462.1035.0	reducer (order 3x)
CM + 7.0372.0070.0	hose clamp (order 3x)
CM + 7.0372.0040.0	hose clamp (order 3x)

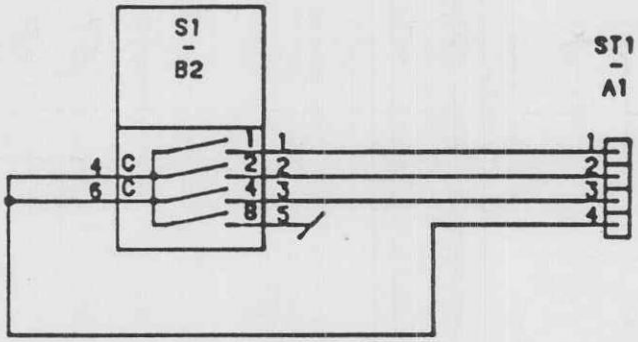
— In order to prevent building up of the chemicals, the drain hoses must be installed without bends and leading downwards, the hose ends may not be inserted in the solutions (see drawings).



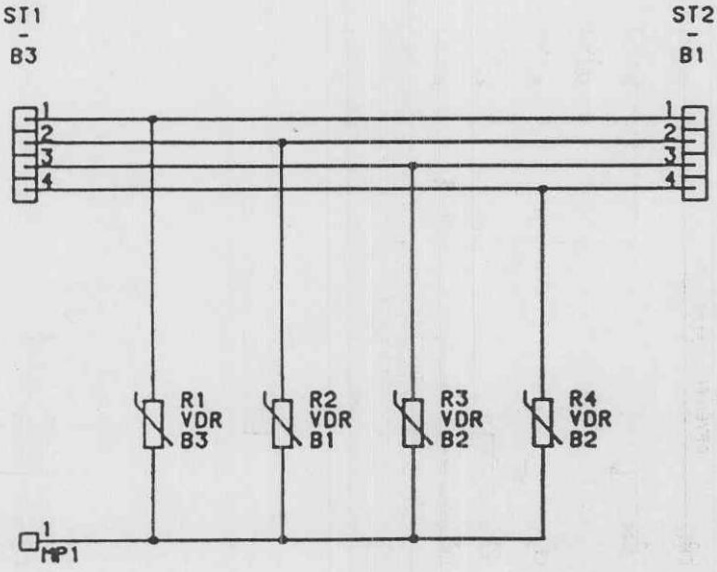
3. Machine operation without cover

This is possible, if the service technician or the product manager uses the "service key for the safety switch" order no. CM+7.9820.0134.0.

GS Dryer step switch



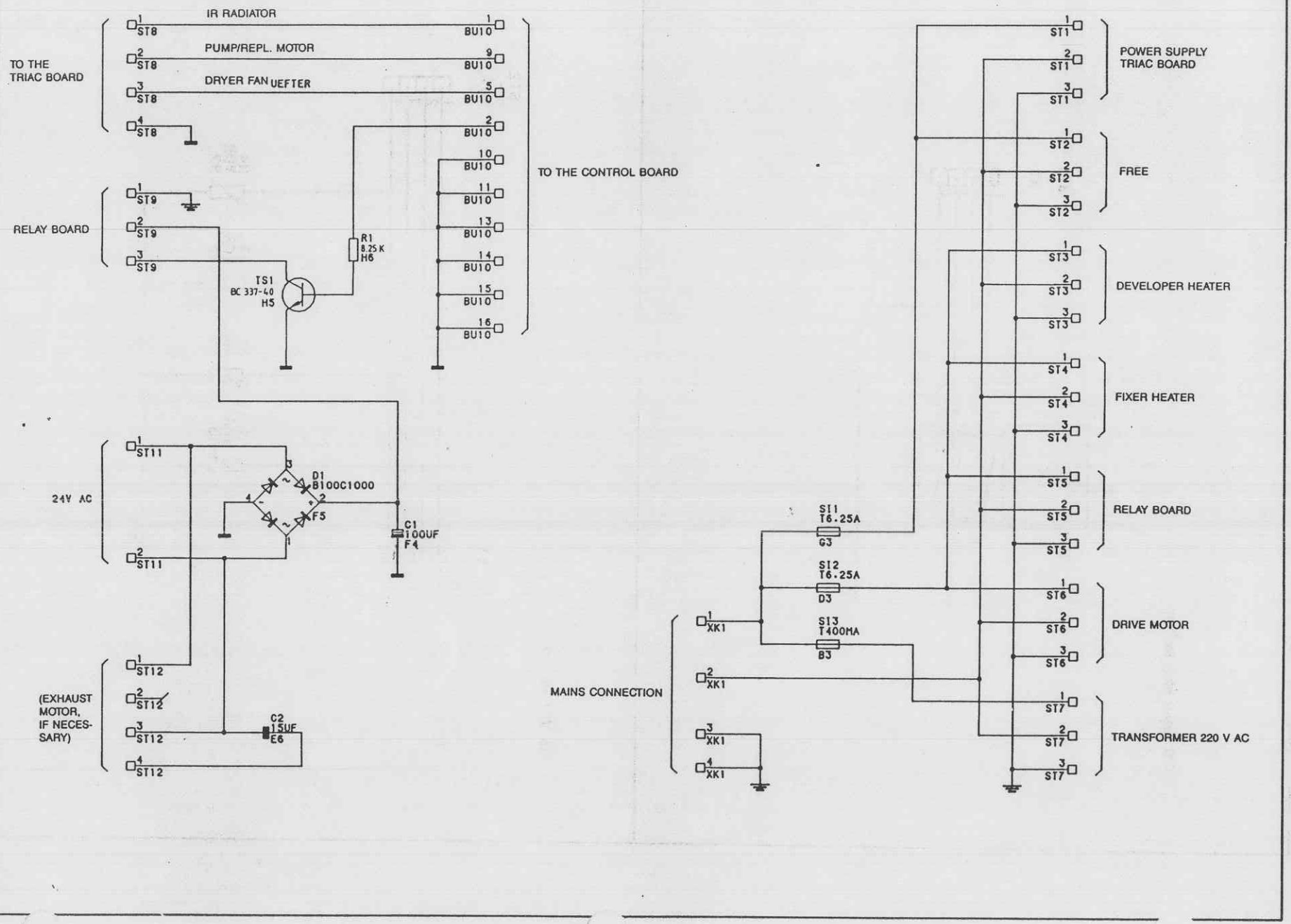
GS VDR board



CURIX 60
Circuit diagram GS dryer step switch and GS VDR board

CURIX 60

Circuit diagram distributor board 1.GS



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